

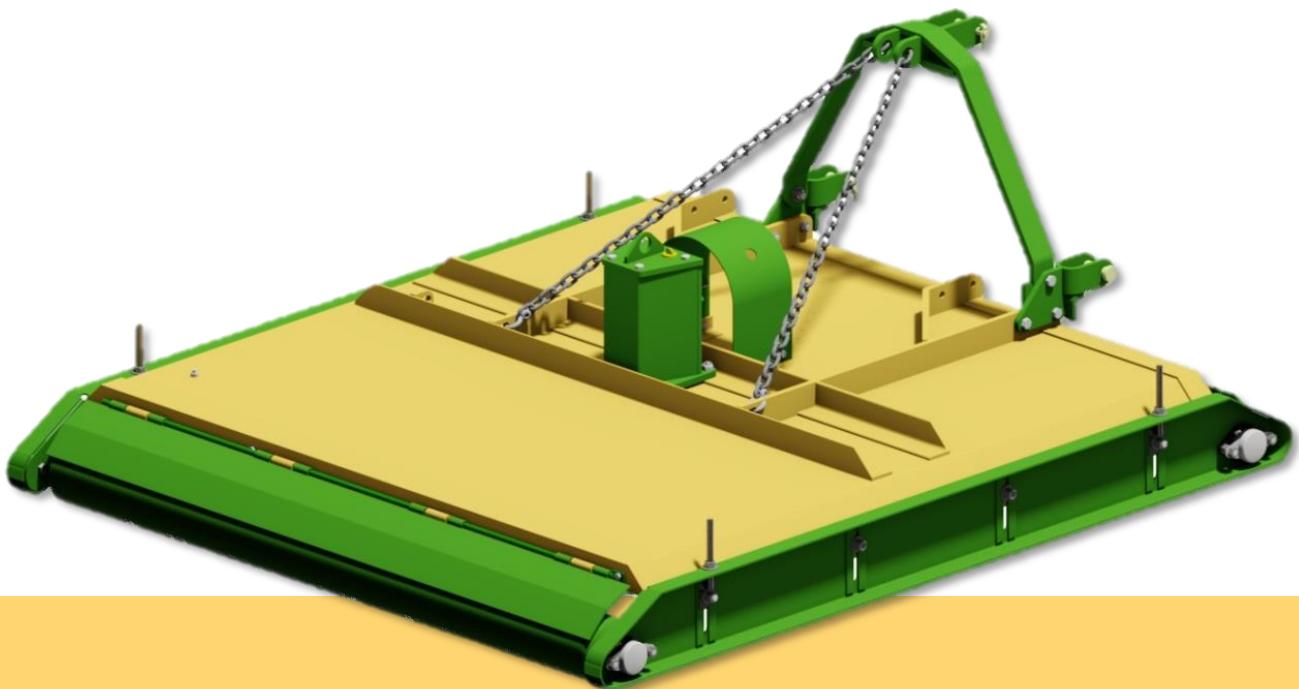


Est. 1985

FALCON®

OPERATORS MANUAL / OPERATEURSHANDLEIDING

Rollermowers



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Authorised Dealer / Gemagtigde handelaar:

Date of Sale / Verkoopsdatum:

Implement:

Model No. / Model Nr.:

Serial No. / Reeks Nr.:

Part number	M8418	Onderdeelnommer
Version	1	Weergawe
Date of publication	2017/12/05	Datum van publisering

FOREWORD

We at Falcon commend and congratulate you on the purchase of your Falcon implement, which we consider to be the best of its type available.

However, we would like to remind you that your success and satisfaction with the product will be greatly improved by you familiarising yourself with the contents of this manual. It contains important information relevant to the responsible operation, maintenance and most importantly, safe use of the product.

Note that failure to observe or comply with the provisions of this manual may result in unsafe operating conditions as well as damage to products and property which shall not be covered under warranty.

Should this manual become misplaced, damaged or destroyed, further copies are available from your Falcon dealer. Alternatively, this document is available for download from our website: www.falconequipment.co.za

Symbols used in this document

	Safety-critical notices	Failure to comply with these notices may result in serious damage to equipment, personal injury or death.
	Veiligheidskritieke kennisgewings	Versium om aan hierdie kennisgewings gehoor te gee kan ernstige skade aan toerusting, persoonlike beserings of dood tot gevolg hê.
	Procedures and checks	To be carried out by suitably competent persons in the course of installation, operation and maintenance of the equipment.
	Prosedures en kontroles	Moet deur toepaslik bekwame persone uitgevoer word by die installering, bedryf en instandhouding van die toerusting.
	General information	Information provided for references purposes, including any external references intended to be read in conjunction with this manual.
	Algemene inligting	Inligting vir verwysingsdoeleindes, insluitend enige eksterne verwysings wat bedoel is om saam met hierdie handleiding gelees te word.

VOORWOORD

Ons by Falcon wens jou geluk met die aankoop van jou Falcon-implement, wat ons as die beste beskikbare werktuig in sy soort beskou.

Ons herinner u egter graag daaraan dat u sukses en tevredenheid met die produk grootliks verbeter sal word as u met die inhoud van hierdie handleiding vertroud raak. Dit bevat belangrike inligting met betrekking tot die verantwoordelike gebruik, instandhouding en, die heel belangrikste, veilige gebruik van die produk.

Let asseblief op dat versium om die bepalings van hierdie handleiding na te kom tot onveilige bedryfstoeleende asook skade aan produkte en eiendom kan lei wat nie onder die waarborg gedek sal wees nie.

Indien hierdie handleiding dalk verloor, beskadig of vernietig sou word, is daar verdere kopieë by u Falcon-handelaar beskikbaar. Hierdie dokument kan ook van ons webwerf, www.falconequipment.co.za, afgelai word.

Simbole wat in hierdie dokument gebruik word

COMPANY PROFILE

Falcon Agricultural Equipment (Pty) Ltd is the largest manufacturer of rotary cutters in Africa. The company opened its doors in 1985, at its current premises in Howick, KwaZulu-Natal, South Africa. This is the ideal location as it is an agricultural area with a leading agricultural college nearby.

Our primary market is the agricultural sector, with niche efforts into the industrial and turf implement markets. We distribute our products through a network of over 250 authorised dealers and approximately 110 dedicated mechanisation dealers countrywide. We also distribute our products across our borders into other African countries such as Botswana, Kenya, Malawi, Mozambique, Namibia, Uganda, Swaziland, Tanzania, Zambia, and Zimbabwe.

We manufacture the Falcon range of implements, and our ongoing program of innovation and improvement ensures that we consistently launch implements to satisfy our customers' ever-changing needs.

The Falcon range includes slashers, Haymakers®, material handling implements, mulchers, mowers, spreaders, rotavators, and flail implements. Each is designed to be simple, safe, and serviceable while offering excellent value for money. They are built to last and are capable of coping with the tough South African conditions.

In many parts of South Africa "Falcon" is the generic term for grass-cutting implements, making us the undisputed leader in our field. Delivery on a marketing promise is the foundation of any successful marketing drive and farmers buying the Falcon brand buy more than just a product - they buy the heritage and expertise of a company that has been around for a long time!

We also import a range of implements that complement the locally manufactured ones. These include the Amazone spreaders, sprayers, mowers, and soil tillage implements (from Germany).

Falcon Agricultural Equipment (Pty) Ltd is committed to supporting our local communities in many different ways. Our main focus is the well-being of children and we provide a safe and suitable school environment for them, as well as school-related necessities.

Our team prides itself on its professional approach to business. We have built long-standing relationships with our dealers and their customers based on honesty, trust, respect, and integrity. Excellent customer service is an important part of the Falcon promise.

MAATSKAPPYPROFIEL

Falcon Agricultural Equipment (Edms.) Bpk. is die grootste vervaardiger van wentelsnyers in Afrika. Die maatskappy het sy deure in 1985 by sy huidige perseel in Howick, KwaZulu-Natal, Suid-Afrika, geopen. Die ligging is ideaal: in 'n boerderygebied met 'n vooraanstaande landboukollege naby.

Ons hoofmark is die landbousektor, met nisverkope in die nywerheids- en grasbaanimplemente markte. Ons versprei ons produkte deur 'n netwerk van meer as 250 gemagtigde handelaars met ongeveer 110 toegewyde mekanisasiehandelaars landswyd. Ons versprei ook ons produkte oor ons grense na ander Afrikalande soos Botswana, Kenia, Malawi, Mosambiek, Namibië, Uganda, Swaziland, Tanzanië, Zambië, en Zimbabwe.

Ons vervaardig die Falcon-implementreeks en ons voortgesette program van vernuwing en verbetering verseker dat ons konstante implemente bekendstel wat ons kliënte se immer veranderende behoeftes bevredig.

Die Falcon-reeks sluit wentelsnyers, Hooimakers®, materiaalhanteringsimplemente, mulchers, grassnyers, strooiers, kapploeë en vleëimplemente in. Almal is ontwerp om eenvoudig, veilig en diensbaar te wees terwyl hulle uitstekende waarde vir geld bied. Hulle is gebou om te hou en ons strawwe Suid-Afrikaanse toestande die hoof te bied.

In baie dele van Suid-Afrika is "Falcon" die generiese term vir grassny-implemente, wat ons die onbetwiste leier op ons gebied maak. Die nakom van 'n bemarkingsbelofte is die grondslag van enige geslaagde bemarkingsveldtog, en boere wat die Falcon-handelsmerk koop, koop meer as net 'n produk – hulle koop die erven en deskundigheid van 'n maatskappy wat al lank in die land is!

Ons voer ook 'n reeks implemente in wat die plaaslike vervaardigdes komplementeer. Dit sluit in die Amazonestrooiers, -spuite, -grassnyers en -grondbewerkings-implemente (uit Duitsland).

Falcon Agricultural Equipment (Edms.) Bpk. is verbonde tot die ondersteuning van ons plaaslike gemeenskappe op baie verskillende maniere. Ons hooffokus is die welsyn van kinders, en ons verskaf vir hulle 'n veilige en gesikte skoolomgewing, sowel as skoolverwante benodigdhede.

Ons span is trots op sy professionele benadering tot besigheid. Ons het langdurige verhoudings met ons handelaars en hul klante opgebou wat op eerlikheid, vertroue, respek en integriteit gebaseer is. Voortreflike klantediens is 'n belangrike deel van die Falcon-belofte.

WARRANTY AND DISCLAIMER

Falcon products are manufactured in accordance with established quality standards and are accompanied by a limited warranty against defective materials and workmanship. In terms of this warranty, Falcon or an authorised Dealer may conduct reasonable repairs or replacement of products or parts of products, as required.

General conditions of limited warranty

Any claim with respect to warranty shall satisfy the following minimum conditions.

- The implement has not been subjected to misuse, abuse, damage or acts of negligence.
- The Owner is in possession of, and can demonstrate an understanding and application of the provisions of this manual.
- The implement has been used exclusively for its intended purpose and in a configuration in which it was designed to operate.
- Installation, setup, operation and maintenance of the implement have been carried out in accordance with this manual.
- Maintenance of the implement has been carried out as prescribed in this manual, using original and approved parts.
- The implement has not been subjected to structural, mechanical or any other unauthorised modification or repair.
- A warranty claim has been reported to an authorised Dealer within the prescribed warranty period for the product concerned.

Exclusions

The following items are excluded from warranty cover, including any costs relating to these.

- Parts reckoned as consumable or wearing parts.
- Products or parts of products exhibiting acceptable wear and tear.
- Temporary replacement, loan or hire of substitute parts or equipment.
- Transport and handling of affected products.
- Consequential damage or loss on the part of any person, organization or otherwise affected party.

Validity

This warranty supersedes all previous conditions of warranty, whether expressed or implied, including any previous obligation or liability on the part of Falcon in respect of non-conforming or defective product.

Disclaimer

Falcon maintains a programme of continuous product improvement and consequently reserves the right to change designs, specifications, descriptions and materials

WAARBORG EN VRYWARING

Falcon-produkte word vervaardig ooreenkomsdig met gevestigde gehalte-standaarde en word deur 'n beperkte waarborg teen defektiewe materiale en vakmanskap gedeck. Kragtens hierdie waarborg mag Falcon of 'n gemagtigde Handelaar redelike herstelwerk of vervanging van produkte of produkonderdele uitvoer, soos vereis.

Algemene voorwaardes van beperkte waarborg

Enige eis ten opsigte van die waarborg moet aan die volgende minimumvoorwaardes voldoen:

- Die implement is nie aan verkeerde gebruik, misbruik, beskadiging of verwaarlozing onderwerp nie.
- Die Eienaar is in besit van hierdie handleiding en kan 'n begrip en toepassing van die bepalings daarvan demonstreer.
- Die implement is uitsluitlik vir die bedoelde doel gebruik en in 'n konfigurasie waarin dit ontwerp is om bedryf te word.
- Instalering, opstelling, bedryf en instandhouding van die implement het in ooreenstemming met hierdie handleiding plaasgevind.
- Instandhouding van die implement is uitgevoer soos in hierdie handleiding voorgeskryf, met gebruik van oorspronklike en goedgekeurde onderdele.
- Die implement is nie aan enige strukturele, meganiese of enige ander ongemagtigde wysiging of herstelwerk onderwerp nie.
- Kennis van 'n waarborg-eis is binne die voorgeskrewe waarborgtydperk vir die betrokke produk aan 'n gemagtigde Handelaar gegee.

Uitsluitings

Die volgende items word van waarborgdekking uitgesluit, insluitend enige onkoste daaraan verbonde.

- Onderdele as verbruikbare of slytonderdele geag.
- Produkte of produkonderdele wat aanvaarbare slytasie vertoon.
- Tydelike vervanging,leen of huur van vervangings-onderdele of -toerusting.
- Vervoer en hantering van geaffekteerde produkte.
- Gevolglike skade of verlies aan of deur enige persoon, organisasie of andersins geaffekteerde party.

Geldigheid

Hierdie waarborg vervang alle vorige waarborgvoorwaardes, hetsy eksplisiet of geïmpliseer, insluitend enige vorige verpligting of aanspreeklikheid van Falcon ten opsigte van nie-ooreenstemmende of defekte produkte.

Vrywaring

Falcon handhaaf 'n program van voortdurende produkverbetering en gevolg behou ons die reg om ontwerpe, spesifikasies, beskrywings, materiale en enige ander

of construction and any other product attribute without prior notice. This includes no obligation to reflect such changes in documentation or literature or to provide any such changes to products previously sold or held in stock.

produkeienskap sonder voorafkennisgewing te wysig, insluitend geen verpligting om sulke veranderinge in dokumentasie of literatuur te weerspieël of aan te bring aan produkte wat voorheen verkoop of aangehou is nie.

Warranty Periods

Brands	Product groups	Components	Origin	Versions	Period
Falcon	Slashers Haymakers® Rollermowers Blowermowers™	Gearboxes	Imported	All	2y
	Falcon		F50	3y	
			F80	3y	
	PTO shafts	Imported	All	1y	
	OEM parts	Falcon	All	2y	
	Dual-spindle Slashers Dual-spindle Haymakers® Flexwing Grassmulchers™ Fieldmulchers™ SD Mulchers Rotagang®	Gearboxes	Imported	All	1y
	Falcon		F50	2y	
			F60	1y	
			F80	2y	
	PTO shafts	Imported	All	1y	
	OEM parts	Falcon	All	1y	
	Flail implements	Gearboxes	Imported	All	1y
		PTO shafts	Imported	All	1y
		OEM parts	Falcon	All	1y
	Rotavators	Gearboxes	Falcon	All	1y
		OEM parts	Falcon	All	1y
	Rottorspreaders	OEM parts	Falcon	All	1y
		PTO shafts	Imported	All	1y
	Limespreaders	OEM parts	Falcon	All	1y
	Bale forks + beams	OEM parts	Falcon	All	1y
	Uniloader®	OEM parts	Falcon	All	1y
	Bale Grab	OEM parts	Falcon	All	1y
Amazone	Spreaders Sprayers Soil Tillage Turf equipment	All	Amazone	All	1y

PRODUCT RANGE

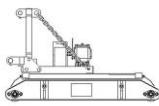
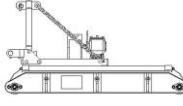
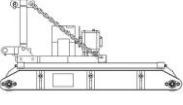
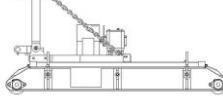
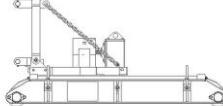
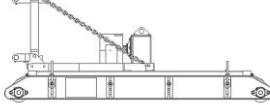
Falcon Rollermowers offer a robust, cost-effective solution for maintaining a wide range of areas under grass. While they are similar in build and specification to the equivalent Falcon Slasher models, they have the added features of rollers and front and rear safety flaps.

- Available in a range of sizes with working widths from 0,9 to 1,8 m, they are suitable for tractors from 10 to 60 kW.
- F25 and F40 models are fitted with approved, imported gearboxes, while F50 models are fitted with Falcon's locally manufactured gearboxes, all providing reliable, trouble-free operation.
- An alternative offset hitch position is available on certain models, allowing cutting up to boundaries and fence lines.

PRODUKREEKS

Falcon Rollermowers bied 'n robuuste, koste-effektiewe oplossing vir instandhouding van 'n wye verskeidenheid gebiede onder gras. Bou en spesifikasies is soortgelyk aan dié van die ekwivalente Falcon Slasher-modelle, maar hulle het ook rollers en veiligheidsflappe voor en agter.

- Hulle is beskikbaar in 'n verskeidenheid groottes met werkswydtes van 0,9 tot 1,8 m, en is gesik vir trekkers van 10 tot 60 kW.
- F25- en F40-modelle is toegerus met goedgekeurde, ingevoerde ratkaste, en F50-modelle met Falcon se plaaslik-vervaardigde ratkaste, wat almal betroubare, moeitevrye werkverrigting bied.
- 'n Alternatiewe kontrahaakposisie is op sekere modelle beskikbaar, wat sny tot by grense en draadheinings moontlik maak.

Profile	Model (Part No.)	Blades/Spindles (qty)	Working width (mm)	W x L (mm)		Mass (kg)	Power, max. (kW)
	F25-90R (A0002)	3 (x1)	900	1 085	1 345	185	10–25
	F25-120R (A0004)	4 (x1)	1 200	1 410	1 595	238	15–25
	F40/120R (A0012)	4 (x1)	1 200	1 410	1 595	345	15–40
	F40-150R (A0014)	4 (x1)	1 500	1 720	1 960	472	35–40
	F50-150R (A0022)	4 (x1)	1 500	1 720	1 960	493	40–50
	F50-180R (A0024)	4 (x1)	1 800	2 020	2 355	595	40–60
Profiel	Model (Onderdeelnr.)	Lemme/Spille (getal)	Werkswydte (mm)	B x L (mm)		Massa (kg)	Krag, maks. (kW)

INSTALLATION

Attaching the implement to the tractor

- ⚠ Do not enter the area between the tractor and the implement unless the tractor engine is shut off, the handbrake applied and the key is removed from the ignition.
- ⚠ Use only hitch pins and lynch pins of the correct specification, such as those provided with the implement.

The implement is equipped with a standard 3-point hitch for attachment to the tractor.

- ✓ Adjust the tractor 3-point hitch top link (Fig. 1-A) to provide sufficient slack in the implement topmast chains (Fig. 1-B) to allow articulation of the implement over undulating terrain.
- ✓ Lift the implement to an acceptable transportation height and operate the hitch offset facility to the extremities of its travel, ensuring that there is no contact between the implement and any part of the tractor.
- ✓ Adjust the tractor 3-point hitch stabiliser arms to prevent excessive lateral movement of the implement during transportation.
- ✓ Set the tractor hitch lift arms to a floating position to enable independent movement of the arms while cutting.

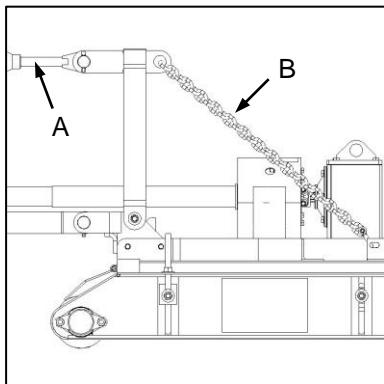


Fig. 1

Installing the PTO driveshaft

- ⚠ Ensure proper engagement between the PTO driveshaft couplings and the input and output shafts on the implement and tractor.
- ⚠ Ensure sufficient overlap of the PTO driveshaft tubes at the working position.
- ⚠ Do not exceed the specified PTO driveshaft speed.
- ⚠ Do not operate the implement without PTO driveshaft guards in place and in good condition. Anti-rotation chains must be attached.
- ⚠ Replace damaged or missing PTO guard parts with original spare parts only.
- ⚠ Do not approach the rotating PTO driveshaft and avoid loose-fitting clothing to prevent entanglement.

INSTALLERING

Koppel van die implement aan die trekker

- ⚠ Moenie tussen die trekker en die implement inbeweeg tensy die trekkerenjin afgeskakel, die handrem opgetrek en die sleutel uit die aansitter verwyder is nie.
- ⚠ Gebruik slegs haak- en lunspenne met die korrekte spesifikasies soos dié wat saam met die implement verskaf is.

Die implement is toegerus met 'n standaard 3-punt-haak om dit aan die trekker te koppel.

- ✓ Verstel die trekker se 3-punt-boskakel (Fig. 1-A) om voldoende spelting aan die implement se topmastkettings (Fig. 1-B) te verskaf, sodat die implement die kontoere van die grond kan volg.
- ✓ Lig die implement tot 'n aanvaarbare vervoerhoogte en beweeg die haak tot by die uiterste punte om seker te maak dat die implement aan geen deel van die trekker raak nie.
- ✓ Verstel die 3-punt-haak se stabiliseerdearms om enige oormatige laterale beweging van die implement tydens vervoer te voorkom.
- ✓ Stel die trekker se 3-punt-haak se hysarms om vry te kan beweeg sodat onafhanklike beweging van die arms tydens sny moontlik is.

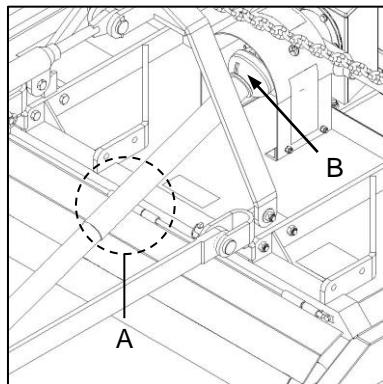


Fig. 2

Installering van die kragaftakkeras

- ⚠ Verseker behoorlike inskakeling tussen die kragaftakkeras se koppelstukke en die inset- en leweringsasse aan die implement en trekker.
- ⚠ Verseker voldoende oorvleueling van die kragaftakkeras se buise in die werkposisie.
- ⚠ Hou by die gespesifieerde kragaftakkeras-spoed.
- ⚠ Moenie die implement bedryf sonder die kragaftakkeras-skerm in posisie en in 'n goeie toestand nie. Teendraaikettings moet aangeheg wees.
- ⚠ Vervang beskadigde of ontbrekende kragaftakkeras-skerm-onderdele slegs met oorspronklike onderdele.
- ⚠ Moenie na aan die draaiende kragaftakkeras kom nie en vermy lospassende klere om verstregeling te verhoed.

Due to the many variations in tractor and implement hitch configurations it is likely that the supplied PTO driveshaft will have to be cut to suit the operating distance between the tractor and the implement.

- ✓ Before cutting the PTO driveshaft to the appropriate operating length, refer to the manufacturer's instructions supplied with the PTO shaft.
- ✓ Following installation of the PTO shaft, lift the implement to an acceptable transporting height and ensure that there is no contact between the PTO driveshaft and the implement (Fig. 2-A).
- ✓ Ensure that universal joint operating angles are not exceeded and that over-compression or over-extension of the PTO driveshaft is avoided (Fig. 2-B).

- ⊖ All PTO drive shafts supplied on Falcon implements are accompanied by a product handbook (IM-03-2008) describing all aspects of installation, operation, maintenance and safety with respect to the PTO driveshaft. The document constitutes part of this manual and will be found attached to the PTO driveshaft supplied with each new Falcon implement.

Settings and adjustment

- ⚠ Do not perform maintenance or any other work on the implement unless the tractor engine is shut off, handbrake applied and the key is removed from the ignition.
- ⚠ Do not perform maintenance or any other work on the implement while it is suspended only on the tractor 3-point hitch and without suitable additional support for the implement.

The working height of the implement is set by adjusting the position of the side panel in relation to the implement deck.

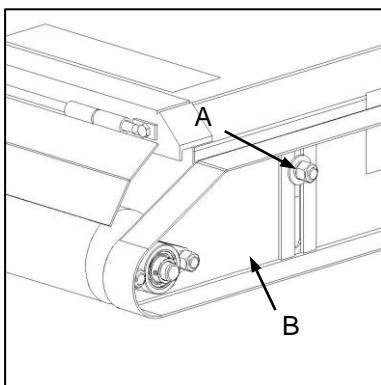


Fig. 3

- ✓ To set the working height of the implement, loosen the side panel retaining nuts (Fig. 3-A / 4-A) and adjust the position of the side panel (Fig. 3-B / 4-B) as required. The larger and heavier F50 models are provided with a leadscrew-type adjuster (Fig. 4-C).

Vanweë die talle variasies in trekker-en-implementhaakkonfigurasies sal die kragaftakkeras wat verskaf is, waarskynlik verkort moet word om by die bedryfsafstand tussen die trekker en die implement te pas.

- ✓ Verwys eers na die vervaardiger se instruksies wat saam met die kragaftakkeras voorsien is voordat die as tot die gepaste lengte gesny word.
- ✓ Na installering van die kragaftakkeras moet die implement tot 'n aanvaarbare vervoerhoogte gelig word, en maak seker dat daar geen kontak tussen die kragaftakkeras en die implement is nie (Fig. 2-A).
- ✓ Verseker dat kruiskoppelingwerkshoeke nie oorskry word nie en dat geen oorkompressie of oorverlenging van die kragaftakkeras plaasvind nie (Fig. 2-B).

- ⊖ Alle kragaftakkerasse wat saam met Falcon-implemente verskaf word, word vergesel van 'n produkhandleiding (IM-03-2008) wat alle aspekte van installering, bedryf, instandhouding en veiligheid m.b.t. die kragaftakkeras beskryf. Dit vorm deel van hierdie handleiding en sal aan elke kragaftakkeras van elke nuwe Falcon-implement gevind word.

Instelling en verstelling

- ⚠ Moenie enige instandhouding- of ander werk aan die implement doen tensy die trekkerenjin afgeskakel, die handrem opgetrek en die sleutel uit die aansitter verwyder is nie.
- ⚠ Moenie enige instandhouding- of ander werk aan die implement uitvoer terwyl dit nog aan die trekker se 3-punt-haak hang, en sonder bykomende steun vir die implement nie.

Die werkshoogte van die implement word gestel deur die posisie van die sypaneel in verhouding tot die implementdek te verstel.

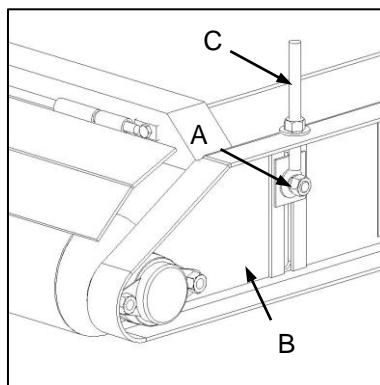


Fig. 4

- ✓ Om die implement se werkshoogte te stel, maak die sypaneel se keermoere los (Fig. 3-A / 4-A) en verstel die posisie van die sypaneel (Fig. 3-B / 4-B) soos benodig. Die groter en swaarder F50-modelle is van 'n leiskroef-tipe versteller voorsien.

- ✓ Ensure that the implement is level by measurement of the retaining nut position on the side panel, or the thread length protruding at each adjustment point.

Lubrication and oil levels

Confirm that all gearbox oil levels are correct before use of the implement.

- ✓ A dipstick (Fig. 5-A) is provided on the implement gearbox for this purpose. The oil level should fall within the area indicated on the dipstick.

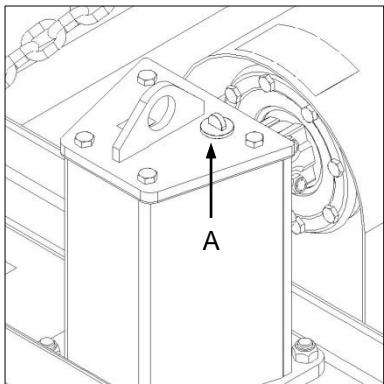


Fig. 5

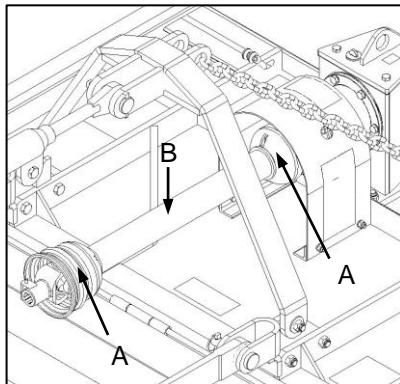


Fig. 6

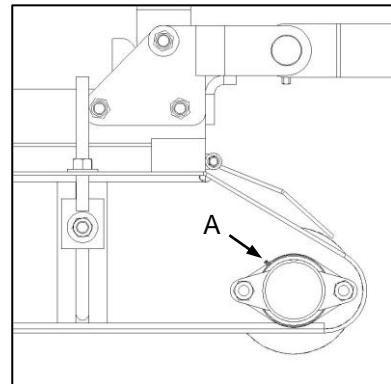


Fig. 7

- ✓ Verseker dat die implement waterpas is deur meting van die keermoeerposisie aan die sypaneel, of die draadlengte wat op elke verstelpunt uitsteek.

Smering en olievlekke

Verseker dat alle ratkasolievlakke korrek is voordat die implement gebruik word.

- ✓ Die ratkas het 'n peilstok (Fig. 5-A) vir hierdie doel. Die olievlek moet binne die perke val wat op die peilstok aangedui word.

- ✓ Apply grease to the bearing units (Fig. 7-A).

Ensure that the PTO shaft is properly lubricated before use of the implement.

- ✓ Apply grease to the universal joints (Fig. 6-A) and telescopic tubes (Fig. 6-B) of the PTO shaft.
- ✓ For additional information, refer to the PTO manufacturer's handbook supplied with the implement.
- For lubrication requirements, refer to MAINTENANCE, Table 2, Lubrication requirements.

- ✓ Ghries die koeëllaereenhede (Fig. 7-A).

Verseker dat die kragaftakkeras behoorlik gesmeer is voordat die implement gebruik word.

- ✓ Ghries die kruiskoppelings (Fig. 6-A) en teleskopiese buise (Fig. 6-B) van die kragaftakkeras.
- ✓ Verwys vir verdere inligting na die kragaftakkeras se vervaardigershandboek wat saam met die implement voorsien is.
- Vir smeringvereistes, verwys na INSTANDHOUDING, Tabel 2, Smeringvereistes.

General

It is the responsibility of the owner to ensure that the operation of an agricultural tractor and any attached equipment is carried out in accordance with all applicable laws, regulations and practices relating to safe and responsible operation.

- Applicable regulations should include but not be limited to the South African Occupational Health and Safety Act No. 83 of 1993 and the South African National Road Traffic Act No. 93 of 1996.
- Also refer also to operational information relevant to the tractor concerned, including handbooks, operator manuals, safety and warning notices and decals.

Preparation for use

- ⚠** Only suitably trained persons should operate the implement and no person should operate the implement without first studying and establishing a complete understanding of the content of this manual.

The implement should be thoroughly inspected and prepared before each use and with reference to procedures described elsewhere in this manual.

1. Attaching the implement to the tractor.
2. Installing the PTO driveshaft.
3. Settings and adjustments.
4. Lubrication and oil levels.
5. Routine maintenance (before and after each use).

Inspect the work area.

- ✓ Remove any movable obstructions from the work area, especially any object which may become a projectile.
- ✓ Note the presence of ditches, holes, stumps, rocks, or any other obstruction that might destabilise the tractor or cause damage to the implement. Remove these obstacles where possible, otherwise note and avoid these areas during cutting.

Operating the implement

- ⚠** Never approach or allow any person to approach the implement unless the implement has been lowered to the ground, the tractor engine is shut off, the handbrake applied and the implement cutting gear has come to a complete stop.
- ⚠** Actively discourage spectators and cease operation of the implement if any person approaches or enters the work area.
- ⚠** Be sure to operate the implement only at the specified PTO input speed.
- ⚠** Do not approach the rotating PTO shaft and avoid loose-fitting clothing to prevent entanglement.

Algemeen

Dit is die verantwoordelikheid van die eienaar om te verseker dat die bedryf van 'n landboutrekker en enige gekoppelde toerusting uitgevoer word in ooreenstemming met alle toepaslike wette, regulasies en praktyke wat met veilige en verantwoordelike bediening te doen het.

- Toepaslike regulasies sluit in, maar is nie beperk nie tot, die Suid-Afrikaanse Wet op Beroeps gesondheid en Veiligheid nr. 85 van 1993 en die Suid-Afrikaanse Wet op Nasionale Padverkeer nr. 93 van 1996.
- Verwys ook na bedryfsinligting oor die betrokke trekker, insluitend handboeke, operatorshandleidings en veiligheid- en waarskuwingeskennisgewings en -plakkers.

Voorbereiding vir gebruik

- ⚠** Slegs toepaslik opgeleide persone moet die implement bedryf, en geen persoon moet dit bedryf sonder om eers die inhoud van hierdie handleiding te bestudeer en 'n volledige begrip daarvan te verkry nie.

Die implement moet deeglik geïnspekteer en voorberei word voor dit gebruik word, en met verwysing na prosedures wat in ander dele van hierdie handleiding beskryf word.

1. Koppeling van die implement aan die trekker.
2. Instalering van die kragaftakkeras.
3. Instellings en verstellings.
4. Smering en olievlakke.
5. Roetine-instandhouding (voor en na elke gebruik).

Inspekteer die werksgebied.

- ✓ Verwyder enige los obstrukties van die werksgebied, veral enige voorwerp wat dark 'n projektiel mag word.
- ✓ Let op enige dongas, gate, stompe, klippe, of enige ander obstruksie wat die trekker mag destabiliseer of die implement kan beskadig. Verwyder hierdie hindernisse waar moontlik, of neem kennis van hierdie gebiede en vermy dit wanneer daar gesny word.

Bedryf van die implement

- ⚠** Moet nooit na die implement beweeg, of toelaat dat enigiemand anders dit doen, tensy die implement op die grond laat sak is, die trekkerenjin afgeskakel is, die handrem opgetrek is en die implement se snymeganisme heeltemal tot stilstand gekom het nie.
- ⚠** Toeskouers moet aktief ontmoedig word en snywerk moet onmiddellik gestaak word as enige persoon die werksgebied benader of dit betree.
- ⚠** Verseker dat die implement slegs teen die gespesifieerde kragaftakkeras-insetspoed bedryf word.
- ⚠** Moenie die draaiende kragaftakkeras benader nie en verhoed verstrengeling deur lospassende klere te vermy.

- Failure to operate the implement at the specified PTO shaft speed can result in unsafe operating conditions as well as structural and mechanical failure not covered under warranty.

The implement is intended mainly for use on fields, pastures and paddocks, where the supporting rollers assist in preventing “scalping” of undulating areas, in addition to providing increased personal safety.

Special considerations

In the case of roller-supported rotary cutters, consideration should be given to the material height and how this affects cut quality.

- Roller-supported implements travel over the material before cutting, so that the “folding” effect (Fig. 1) can be minimised by controlling material heights.
- If not controlled the consequences would be an uneven cut quality (Fig. 2).

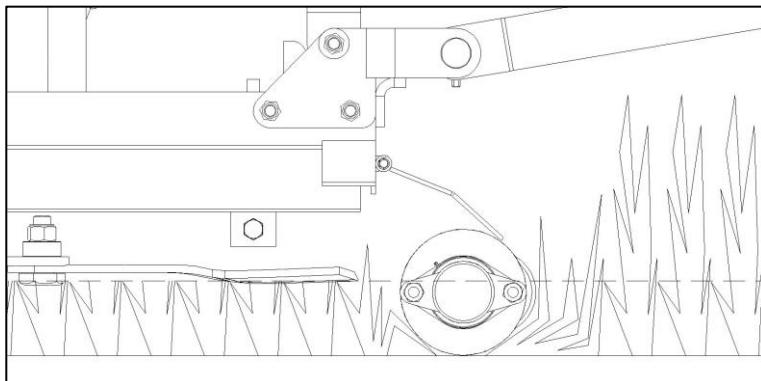


Fig. 1

Wherever possible, cutting should be undertaken as often as circumstances and growing programmes might permit. This will reduce the volume and density of materials being processed on each occasion, which will, in general, have the effect of extending cutting gear and blade life as well as the overall lifespan of the implement.

- Due to the large variation in material properties and operating conditions, the actual capability of the implement should be established by testing and in consultation with an authorised Falcon dealer.

The cutting process

The following procedure is recommended for starting the cutting process and, in general, should be followed on each occasion that PTO input is engaged.

- Start the tractor with the implement suspended on the tractor 3-point hitch.
- Lower the implement so that blades are just clear of the material to be cut and engage the tractor PTO at idling speed.

- Versuim om die implement teen die gespesifieerde kragaftakkerspoed te bedryf kan tot onveilige bedryfstoelede lei, asook tot strukturele en meganiese onklaarraking wat nie deur die waarborg gedek word nie.

Die implement is hoofsaaklik bedoel vir die gebruik op velde, weidings en in weikampe, waar die ondersteunende rollers help om skraping van ongelyke oppervlakte te verhoed, en ook persoonlike veiligheid verhoog.

Spesiale oorwegings

In die geval van rollergesteunde wentelsnyers moet materiaalhoogte en hoe dit snitgehalte raak, in aanmerking geneem word.

- 'n Rollergesteunde implement ry oor die materiaal voordat dit sny, dus kan die “vou”-effek (Fig. 1) verminder word deur materiaalhoogtes te beheer.
- As dit nie beheer word nie is die gevolge 'n oneweredige snitgehalte (Fig. 2).

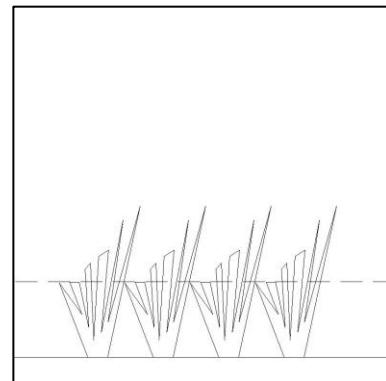


Fig. 2

Sny, waar moontlik, so dikwels as wat omstandighede en kweekprogramme dit toelaat. Dit sal telkens die volume en digtheid van die materiaal wat verwerk moet word, verminder, wat, oor die algemeen, die snymeganisme- en lemlewe, sowel as die algehele leeftyd van die implement, verleng.

- Weens die groot wisseling in materiaaleienskappe en bedryfstoelede moet die ware vermoë van die implement deur toetsing bepaal word, en in oorelog met 'n gemagtigde Falcon-handelaar.

Die snyproses

Die volgende prosedure word aanbeveel om die snyproses te begin en moet in die algemeen gevolg word elke keer wanneer die kragaftakker gebruik word.

- Skakel die trekkerenjin aan met die implement wat aan die 3-punt-haak hang.
- Laat die implement sak totdat die lemme net bokant die materiaal is wat gesny moet word en aktiveer die kragaftakker teen luierspoed.

- ✓ Gradually increase the tractor throttle position to achieve the specified PTO operating speed.
- ✓ Set the throttle to provide the specified PTO input speed and lower the implement to the working position.
- ✓ Engage a low gear in the tractor and begin cutting.

- ⊖ Unless otherwise indicated, the specified implement PTO input speed is 540 r/min.
- ⊖ On tractors with an “economy” PTO drive option (indicated as 540E on the tractor’s tachometer), refer to the tractor’s operator’s manual in selecting the relevant PTO gearbox ratio on the tractor to maintain the specified implement PTO input speed.

Controlling the cutting process.

- ✓ Tractor engine speed must be pre-set to continuously provide the specified PTO input speed, while forward speed should be controlled by an appropriate gear selection.
- ✓ When cornering or turning at the headland, should it be necessary for tractor forward speed to be reduced, the PTO drive should be disengaged and re-engaged before the next cutting pass.

Transportation and storage

The implement may be transported on the tractor 3-point hitch between work sites.

- ✓ Ensure that the implement is lifted to a suitable height to clear any obstacles.
- ✓ Adjust stabilisers on the tractor hitch to prevent excessive lateral sway and possible contact with the tractor tyres.
- ✓ Maintain a speed low enough to prevent excessive bouncing and resultant damage to mounting points and other load-bearing components.

- ✓ Versnel geleidelik met die handversneller totdat die gespesifieerde kragaftakkerbedryfspoed bereik word.
- ✓ Stel die versneller om teen die gespesifieerde kragaftakkerinsetsspoed te loop en laat sak die implement na die werkposisie.
- ✓ Sit die trekker in ’n lae rat en begin sny.

- ⊖ Tensy anders aangedui, moet die gespesifieerde implement se kragaftakkerinsetsspoed 540 r/min wees.
- ⊖ Verwys by trekkers met ’n “ekonomiese”-kragaftakkerdryfopsie (as 540E op die trekker se toereteller getoon) na die trekkerbestuurdershandleiding om die relevante kragaftakkerratkas-verhouding te kies om die implement se gespesifieerde kragaftakkerinsetsspoed te handhaaf.

Beheer van die snyproses.

- ✓ Trekkerenjinspoed moet vooraf gestel word om die vereiste kragaftakkerinsetsspoed konstant te hou, terwyl vorentoe spoed deur gepaste ratseleksie beheer moet word.
- ✓ Wanneer daar gedraai of by die wenakker omgedraai word en dit nodig is om die trekker se spoed te verminder, ontkoppel die kragaftakker en herkoppel dit voor die volgende omgaanslag.

Vervoer en berging

Die implement kan tussen werksterreine aan die trekker se 3-punt-haak vervoer te word.

- ✓ Verseker dat die implement hoog genoeg gelig is om tydens vervoer bo-oor enige hindernisse te kan beweeg.
- ✓ Verstel stabiliseerders aan die trekkerhaak om oormatige laterale beweging en moontlike kontak met die trekker se bande te verhoed.
- ✓ Handhaaf ’n spoed wat laag genoeg is om oormatige bonsing en gevolglike skade aan monteerpunte en ander lasdraende komponente te verhoed.

Routine maintenance

- ⚠ Do not perform maintenance or any other work on the implement unless the tractor engine is shut off, handbrake applied and the key removed from the ignition.
- ⚠ Do not perform maintenance or any other work on the implement while it is suspended only on the tractor 3-point hitch, or without suitable additional support for the implement.
- ⚠ Use only original and approved Falcon replacement parts and lubricants. Refer to the parts information provided in this manual.

Maintenance should be carried out before and after each use and in accordance with the schedules provided in this chapter.

- Bolted connections should be checked for tightness with reference to Bolt Torque Specifications (Table 1).

➤ BEFORE each use

To be carried out at least daily in periods of continuous use. Otherwise before each occasion that the implement is put to use. Extra care and attention should be given to implements which may have been unused for prolonged periods (longer than 1 month).

- ✓ Check all fasteners for tightness. This includes special attention to safety-critical fasteners such as blade bolts and nuts (Fig. 1-A), cutting gear mounting bolts (Fig. 1-B), gearbox mounting bolts (Fig. 2-A), topmast mounting and pivot bolts (Fig. 3-A) and side panel retaining bolts (Fig. 3-B).
- ✓ Check bearing unit retainer bolts (Fig. 3-C) and ensure that protective covers are in place.
- ✓ Inspect blades for indications of wear and sharpen or replace as necessary. Where sharpening is carried out, ensure that blades are of similar shape and mass to prevent imbalance.
- ✓ Ensure that all guards, shields and other safety devices are in place, properly secured and in good condition.

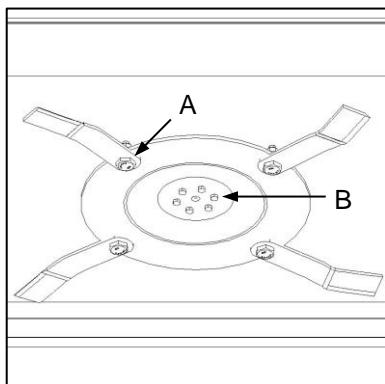


Fig. 1

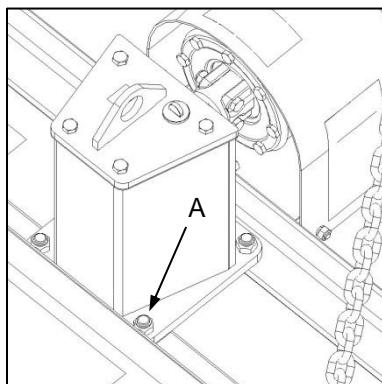


Fig. 2

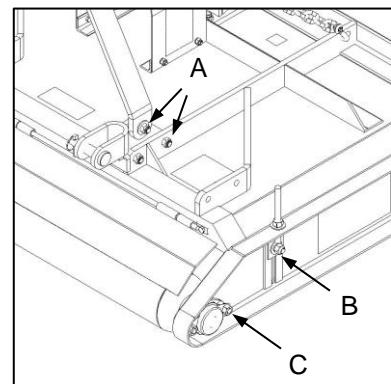


Fig. 3

Roetine-instandhouding

- ⚠ Moenie instandhouding- of enige ander werk aan die implement doen tensy die trekkerenjin afgeskakel, die handrem opgetrek en die sleutel uit die aansitter verwwyder is nie.
- ⚠ Moenie instandhouding- of enige ander werk aan die implement doen terwyl dit net aan die trekker se 3-punt-haak hang, of sonder geskikte ekstra stutte vir die implement nie.
- ⚠ Gebruik slegs oorspronklike en goedgekeurde Falcon-vervangingsonderdele en smeermiddels. Verwys na die onderdele-inligting in hierdie handleiding.

Instandhouding moet telkens voor en na gebruik gedoen word, en in ooreenstemming met die skedules wat in hierdie hoofstuk vervat is.

- Verseker dat koppelboute in ooreenstemming met die boutwringkragspesifikasiekaart vas is (Tabel 1).

➤ VOOR elke gebruik

Moet ten minste daagliks in tye van deurlopende gebruik uitgevoer word. Anders voor elke geleentheid waar die implement gebruik word. Gee ekstra sorg en aandag aan implemente wat dalk vir lang tydperke (meer as 'n maand) nie gebruik is nie.

- ✓ Verseker dat alle hegstuks is. Dit sluit in spesiale aandag aan veiligheidskritieke hegstuks soos lem-boute en -moere (Fig. 1-A), snymeganisme-montereboute (Fig. 1-B), ratkasmonteerboute (Fig. 2-A), topmasmonter- en -spilboute (Fig. 3-A) en sypaneelmonterboute (Fig. 3-B).
- ✓ Gaan koeëllaereenheid-keerboute (Fig. 3-C) na en verseker dat beskermende bedekkings in posisie is.
- ✓ Inspekteer lemme vir tekens van slytasie, en slyp of vervang indien nodig. As met die hand geslyp word, verseker dat lemme daarna eenders lyk en dieselfde weeg om wanbalans te voorkom.
- ✓ Verseker dat alle skutplate en ander veiligheids-toestelle in posisie is, behoorlik vas en in 'n goeie toestand is.

- ✓ Inspect all mounting pins, chains, shackles and other load-bearing components for signs of wear. Check that all secondary securing mechanisms such as linchpins, split pins and clips are in place.
- ✓ Run the implement up to operating speed and conduct visual and audible checks for excessive vibration and noise.

- Causes of excessive vibration and noise must be identified and eliminated immediately to prevent consequential structural or mechanical failure not covered under warranty.

➤ AFTER each use

To be carried out at least every 40 hours in periods of continuous use. Otherwise after each occasion that the implement is put to use, or before long-term storage (longer than 1 month).

- ✓ Clean all debris from the implement, particularly the underside of the deck. Where pressurised cleaning is undertaken, care must be taken in areas around seals, breathers, lubrication points and PTO driveshaft components.
- ✓ Thoroughly inspect the implement for any damages incurred during use and note these for attention before next use.
- ✓ Ensure that all safety and warning decals are in place and in a legible condition.
- ✓ Before long-term storage (longer than 1 month), check oil levels and thoroughly lubricate all specified lubrication points.
- ✓ Store the implement in a clean, dry, weather-protected area.

PTO friction clutch inspection and adjustment

- ⚠ The PTO friction clutch installed on this product is a torque-limiting device. It is an integral part of the PTO driveshaft assembly and is intended to protect both the implement and tractor PTO drivelines and transmission.
- ⚠ Improper operation, maintenance or adjustment of the PTO friction clutch may result in damage not covered under warranty.
- ⚠ The instructions which follow refer only to parts fitted by Falcon as original equipment, as reflected in the parts lists provided elsewhere in this manual.

Proper operation of the PTO driveshaft friction clutch must be confirmed before use of the implement, especially after long-term storage, where corrosion and lack of use may result in binding or seizure of the friction clutch mechanism.

- ✓ Release the pre-load on the friction clutch plates by loosening the nuts (Fig. 4-A) until the compression spring is just free to rotate by hand. Do not remove the nuts completely.

- ✓ Gaan alle monterepenne, kettings, penskakels en ander lasdraende komponente na vir tekens van slytasie. Verseker dat alle sekondêre hegmechanismes soos lunspenne, splitpenne en knippe in posisie is.
- ✓ Versnel die implement tot werkspoed en voer visuele en gehoorinspeksies uit vir oormatige vibrasie en geraas.

- Oorsake van oormatige vibrasie en geraas moet geïdentifiseer en onmiddellik uitgeskakel word om gevolglike strukturele of meganiese onklaarraking te verhoed wat nie deur die waarborg gedek word nie.

➤ NA elke gebruik

Moet minstens elke 40 uur in tye van deurlopende gebruik uitgevoer word, of anders na elke geleentheid dat die implement gebruik word, of voor langtermynberging (langer as 1 maand).

- ✓ Verwyder alle vuilheid van die implement, veral aan die onderkant van die dek. Drukspuitskoonmaak moet versigtig gedoen word, veral naby seëls, luggate, ghriespunte en kragaftakkeras-komponente.
- ✓ Inspekteer die implement deeglik vir enige beskadiging tydens gebruik. Merk dit aan vir aandag en herstel voor dit weer gebruik word.
- ✓ Verseker dat alle veiligheids- en waarskuwingsplakkies in posisie, sigbaar en leesbaar is.
- ✓ Voor langtermynberging moet olievlakke in die implement nagegaan en alle ghriespunte deeglik gesmeer word.
- ✓ Stoer die implement in 'n droë, skoon, weerbestande plek.

Kragaftakkeraswrywingkoppelaar inspeksie en verstelling

- ⚠ Die wrywingkoppelaar aan hierdie produk is 'n wringkragbeperkende toestel. Dit is 'n integrale deel van die kragaftakkeras en is ontwerp om die implement sowel as die trekker se kragaftakkeras-dryfstelle en transmissie te beskerm.
- ⚠ Onbehoorlike bedryf, instandhouding of verstelling van die kragaftakkeras se wrywingkoppelaar kan tot skade lei wat nie deur die waarborg gedek word nie.
- ⚠ Die instruksies wat volg, verwys slegs na oorspronklike Falcon-onderdele, soos in die onderdeellyste elders in hierdie handleiding weerspieël.

Behoorlike bedryf van die kragaftakkeraswrywingkoppelaar moet bevestig word voor gebruik van die implement, veral na langtermynberging waar roes en onbruik dalk na binding of vasbranding van die wrywingkoppelaarmeganisme kan lei.

- ✓ Ontspan die voorlas op die wrywingkoppelaarplate deur die moere los te draai (Fig. 4-A) totdat die drukveer net vry genoeg is om met die hand te draai. Moet die moere nie heeltemal verwyn nie.

- ✓ Apply power to the PTO shaft and confirm that the centre hub rotates freely within the friction plate housing.
- ✓ If the friction clutch assembly is seized it will require rebuilding. This should be carried out using only original replacement parts.

The PTO friction clutch should also be regularly inspected for the following evidence of excessive slipping – typically an indication of transmission overload.

- ✓ Evidence of smoke, burning odours or residues.
- ✓ Discolouration or blistering of painted surfaces of the friction clutch housing (Fig. 5-B).
- ✓ The friction clutch housing feels significantly hotter than the surface of the gearbox casing (Fig. 5-A).

The friction discs within the friction clutch housing should be regularly inspected for wear. Wear is determined by measuring the thickness of the friction disc.

- All models: Friction clutch Type F2 by Comer Industries; minimum friction plate thickness = 2,0 mm

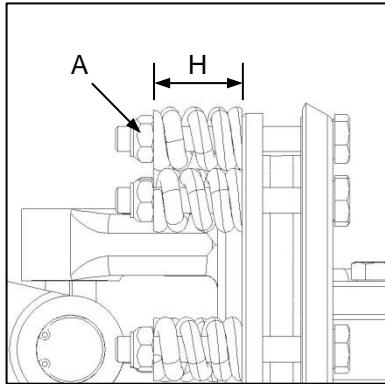


Fig. 4

Following any maintenance or repair of the PTO friction clutch assembly the pre-load on the friction clutch plates must be adjusted to factory specifications. This is accomplished by adjusting the nuts (Fig. 4-A) to set the compressed spring length (Fig. 4-H).

- All models: Friction clutch Type F2 by Comer Industries; H = 31,2 mm

Blade replacement

- ⚠** The cutting gear installed on these implements rotates at extremely high speed. Improper maintenance or repairs can result in failures which might cause serious damage, injury or death.
- ⚠** Use only original Falcon parts of the correct specification and grade for installation of the cutting gear. High-speed failure of rotating parts can result in serious damage, injury or death.

Blades should be replaced if they become damaged, bent

- ✓ Kry die kragaftakkeras met krag aan die draai en bevestig dat die middelnaaf vrylik binne die wrywingplaatomhulsel draai.
- ✓ As die wrywingkoppelaarmontering vasgebrand is, sal dit herbou moet word deur slegs gebruik van oorspronklike vervangingsonderdele te maak.

Die kragaftakkeraswrywingkoppelaar moet ook gereeld vir die volgende tekens van oormatige gly nagegaan word – tipies 'n teken van transmissie-ooreising.

- ✓ Tekens van rook, brandreuke of oorblyfsels.
- ✓ Verkleuring of blaasvorming van geverfde oppervlakte van die wrywingkoppelaaromhulsel (Fig. 5-B).
- ✓ Die wrywingkoppelaaromhulsel voel beduidend warmer as die ratkasomhulsel (Fig. 5-A).

Die wrywingskywe in die wrywingkoppelaaromhulsel moet gereeld vir slytasie nagegaan word. Slytasie word bepaal deur die dikte van die wrywingskyf te meet.

- Alle modelle: Wrywingkoppelaar Tipe F2 deur Comer Industries; minimum plaatdikte = 2,0 mm

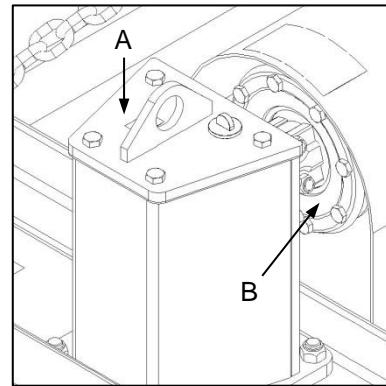


Fig. 5

Na instandhouding of herstel van die kragaftakkeras-wrywingkoppelaarmontering moet die voorlas op die koppelaarplate volgens fabrieksspesifikasies verstel word. Dit word gedoen deur verstelling van die moere (Fig. 4-A) om die saamgeperste veer se lengte te stel (Fig. 4-H).

- Alle modelle: Wrywingkoppelaar Tipe F2 deur Comer Industries; H = 31,2 mm

Lemvervanging

- ⚠** Die snymeganisme aan hierdie implemente draai teen 'n uiters hoë spoed. Gebrekkige instandhouding of herstelwerk kan tot brekasies lei wat ernstige skade, beserings en selfs dood kan veroorsaak.
- ⚠** Gebruik slegs oorspronklike Falcon-onderdele met die korrekte spesifikasie en graad om die snymeganisme te installeer. Hoëspoedbrekasie van draaiende onderdele kan tot ernstige skade, beserings of dood lei.

Lemme moet vervang word as hulle beskadig word, of buig

or broken or have been reduced in mass by more than 20% as a result of wear.

- ✓ Replace all mounting hardware when fitting new blades. This includes blade bolts, bushes and nuts.
- ✓ Check blade mounting holes (Fig. 6-A) for signs of wear, elongation or fractures. In the event of any observed defect do NOT attempt a repair, but provide immediate replacement of the defective disc.
- ✓ Check blade discs for distortion before installation of new blades. Run the implement at a low speed without the blades attached and check for visible run-out (both radially and vertically) at the perimeter of the disc. In the event of any observed defect do NOT attempt a repair, but immediately replace the defective disc.

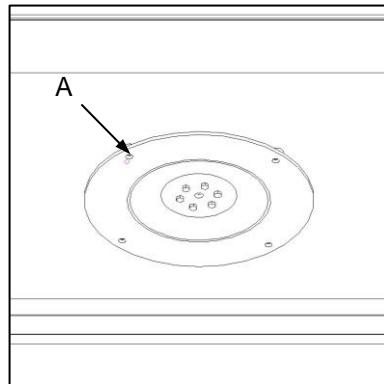


Fig. 6

of breek, of as hulle weens slytasie meer as 20% ligher geword het.

- ✓ Vervang alle monteringsonderdele by die aanbring van nuwe lemme, insluitend lemboute, -busse en -moere.
- ✓ Gaan lemmonteringsgate (Fig. 6-A) na vir tekens van slytasie, vergroting of breuke. In die geval van enige waargenome defek, moet NIE probeer om dit herstel nie, maar vervang die defekte skyf onmiddellik.
- ✓ Gaan lemskywe na vir verwringing voordat nuwe lemme aangebring word. Laat die implement teen 'n lae spoed sonder die lemme loop en kyk of daar enige sigbare wagging (sowel radiaal as vertikaal) by die omtrek van die skyf is. In die geval van enige waargenome defek, moet dit NIE probeer herstel nie, maar vervang die defekte skyf onmiddellik.

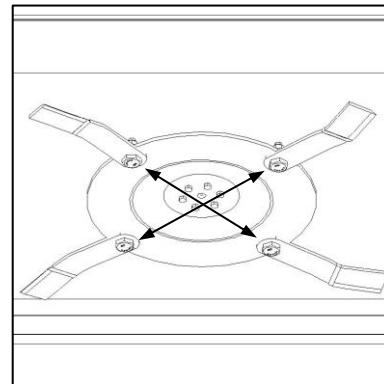


Fig. 7

- ✓ Weigh blades before installation. Blades of nearest equivalent masses should be installed in opposing positions on the same cutting gear assembly to maintain balance (Fig. 7).

- ✓ Following any maintenance or replacement of cutting gear components, run the implement up to operating speed and conduct visual checks for excessive vibration.

- Causes of excessive vibration must be identified and eliminated immediately to prevent consequential structural or mechanical failure not covered under warranty.

- ✓ Weeg lemme voor installering. Lemme met die mees eenderse massas moet teenoor mekaar op dieselfde snymeganismemontering aangebring word om balans te handhaaf (Fig. 7).

- ✓ Na enige instandhouding of vervanging van snymeganismekomponente, kry die implement op bedryfsspoed vir visuele inspeksie vir oormatige vibrasie.

- Oorsake van oormatige vibrasie moet vasgestel en onmiddellik uitgeskakel word om gevoldlike strukturele of meganiese skade wat nie deur die waarborg gedek word nie, te verhoed.

Table / Tabel 1

Bolt Torque Specifications (N.m) / Boutwringkragspesifikasies (N.m)

Class/Klas	4.6		8.8		10.9		12.9	
Lubrication/Smering	Wet/Nat	Dry/Droog	Wet/Nat	Dry/Droog	Wet/Nat	Dry/Droog	Wet/Nat	Dry/Droog
M6	4,8	6	9	11	13	17	15	19
M8	12	15	22	28	32	40	37	47
M10	23	29	43	55	63	80	75	95
M12	40	50	75	95	110	140	130	165
M14	63	80	120	150	175	225	205	260
M16	100	125	190	240	275	350	320	400
M18	135	175	260	330	375	475	440	560
M20	190	240	375	475	530	675	625	800
M22	260	330	510	650	725	925	850	1 075
M24	330	425	650	825	925	1 150	1 075	1 350
M27	490	625	950	1 200	1 350	1 700	1 600	2 000
M30	675	850	1 300	1 650	1 850	2 300	2 150	2 700
M33	800	1 150	1 750	2 200	2 500	3 150	2 900	3 700
M36	1 150	1 450	2 250	2 850	3 200	4 050	3 750	4 750

Table / Tabel 2

Lubrication Requirements / Smeringvereistes

Application		Type	Process	Interval	Products
Gearboxes	Bevel gearboxes	Oiled	Replace	12M	Gear oil, Fuchs, Renep1000
			Check	1D	
	Splitter gearboxes	Oiled	Replace	12M	
			Check	1D	
PTO driveshafts	UV-joints	Greased	Refresh	10H	Grease, Universal, Moly #2
	CV-joints	Greased	Refresh	10H	
	Telescopic tubes	Greased	Refresh	20H	
Auxiliary drives	Intermediate shafts	Greased	Refresh	10H	Grease, Fuchs, HT Lithium M2
	Spindles	Greased	Replace	12M	
			Refresh	10H	
	Bearing housings	Greased	Replace	3M	
			Refresh	10H	
Bearing units	Greased	Refresh	20H	Grease, Universal, Moly #2	
Wheels	Wheel bearings	Greased	Refresh	1W	
Pivot points	Pins and bushes	Greased	Refresh	10H	Machine oil, Universal
		Oiled	Refresh	10H	Grease, Universal, Moly #2
	Ball joints	Greased	Refresh	10H	Machine oil, Universal
		Oiled	Refresh	10H	Grease, Universal, Moly #2
Adjusters / Levers	Threaded rods / Leadscrews	Greased	Refresh	20H	Machine oil, Universal
		Oiled	Refresh	20H	Grease, Universal, Moly #2

TROUBLESHOOTING

FOUTOPSPORING

General troubleshooting

The table below (Troubleshooting Guide - ENG) offers guidance in remedying commonly encountered problems. If a remedy is not possible, further assistance should be sought from an authorised Falcon dealer.

Algemene foutopsporing

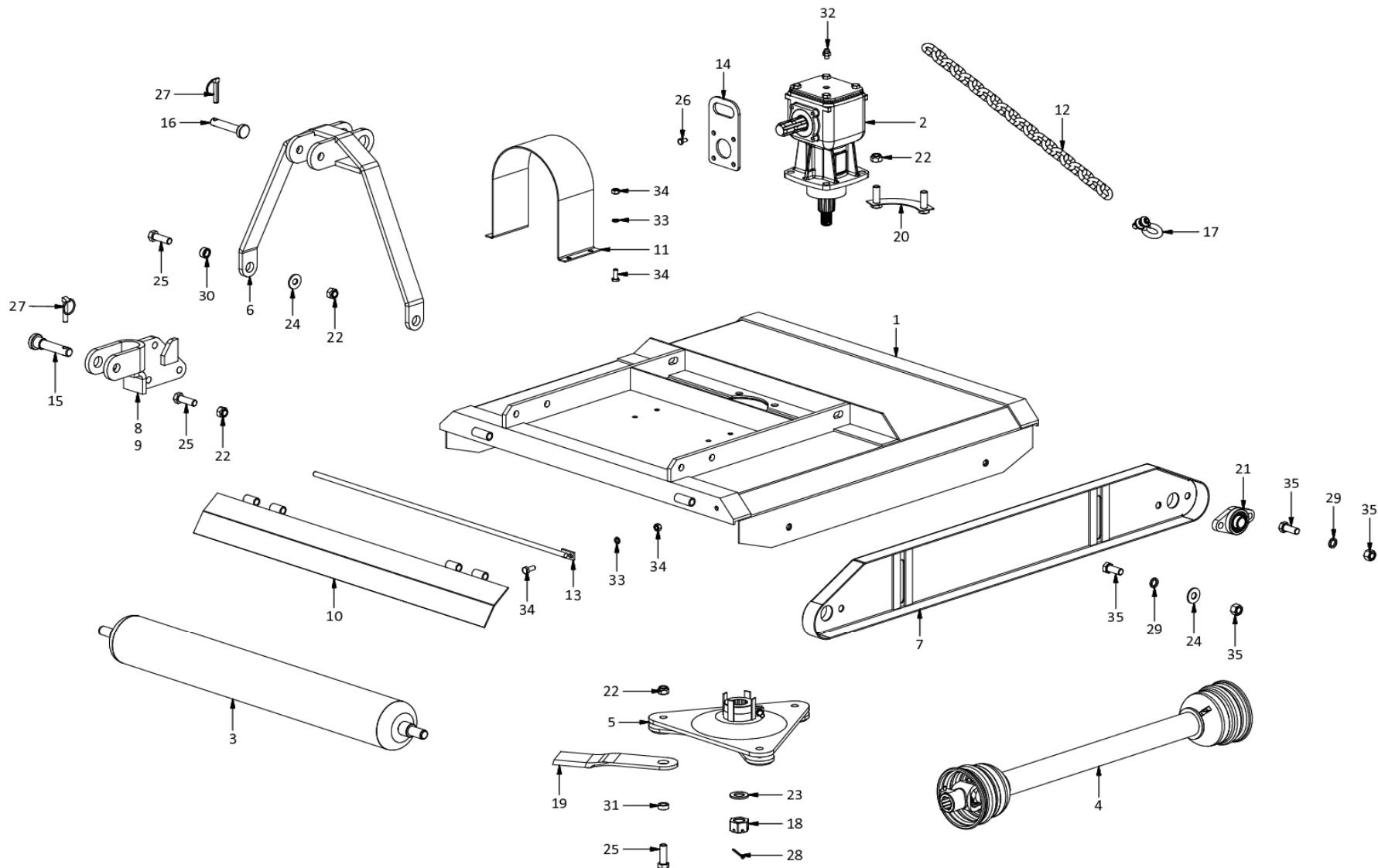
Die tafel onder (Foutopsporingsgids - AFR) bied riglyne vir die oplos van probleme wat algemeen voorkom. As 'n fout nie reggestel kan word nie, moet verdere hulp van 'n gemagtigde Falcon-handelaar bekom word.

Troubleshooting Guide – ENG		
Observation	Probable cause	Available remedy
Uneven cut	Implement not level Worn, damaged or bent blades	Adjust operating height Sharpen/replace blades
Poor material distribution	Material build-up under deck Implement not level Worn blades Wet/damp material Excessive material input/choking	Clean Adjust operating heights Sharpen/replace blades Await suitable conditions Raise cutting height
Mechanical noise	Loose components Low gearbox oil level	Check all fasteners for tightness Check and adjust oil levels
Rapid blade wear	Blade contact with ground Incorrect PTO speed Incorrect forward speed	Adjust operating height Maintain specified PTO speed Adjust forward speed
Poor cut quality	Excessive forward speed Defective friction clutch Worn blades Excessive material input/choking	Adjust forward speed Maintain/adjust as necessary Sharpen/replace blades Raise cutting height
Excessive vibration	Damaged/worn cutting gear Damaged/worn PTO driveshaft	Replace damaged/worn parts Replace damaged/worn parts

Foutopsporingsgids - AFR		
Waarneming	Waarskynlike oorsaak	Beskikbare regstelling
Oneweredige snit	Implement nie gelyk nie Geslyte, beskadigde of gebuigde lemme	Verstel snyhoogte Slyp/vervang lemme
Swak materiaalverspreiding	Materiaal-opbou onder dek Implement nie gelyk nie Geslyte lemme Nat/klam materiaal Oormatige materiaaltoevoer/verstopping	Maak skoon Verstel werkshoogtes Slyp/vervang lemme Wag vir gesikte toestande Verhoog snyhoogte
Meganiese geraas	Los komponente Ratkasolievlak laag	Maak seker alle boute ens. is vas Maak seker olievlakke is reg
Vinnige lemslytasie	Lemkontak met grond Verkeerde kragaftakkeras-spoed Verkeerde vorentoe-spoed	Verstel snyhoogte Hou by korrekte kragaftakkeras-spoed Verstel vorentoe-spoed
Swak snitgehalte	Te hoë vorentoe-spoed Defekte wrywingkoppelaar Geslyte lemme Oormatige materiaaltoevoer/verstopping	Verstel vorentoe-spoed Herstel/verstel soos nodig Slyp/vervang lemme Verhoog snyhoogte
Uitermatige vibrasie	Beskadigde/geslyte snymeganisme Beskadigde kragaftakkeras	Vervang beschadigde/geslyte onderdele Vervang beschadigde/geslyte onderdele

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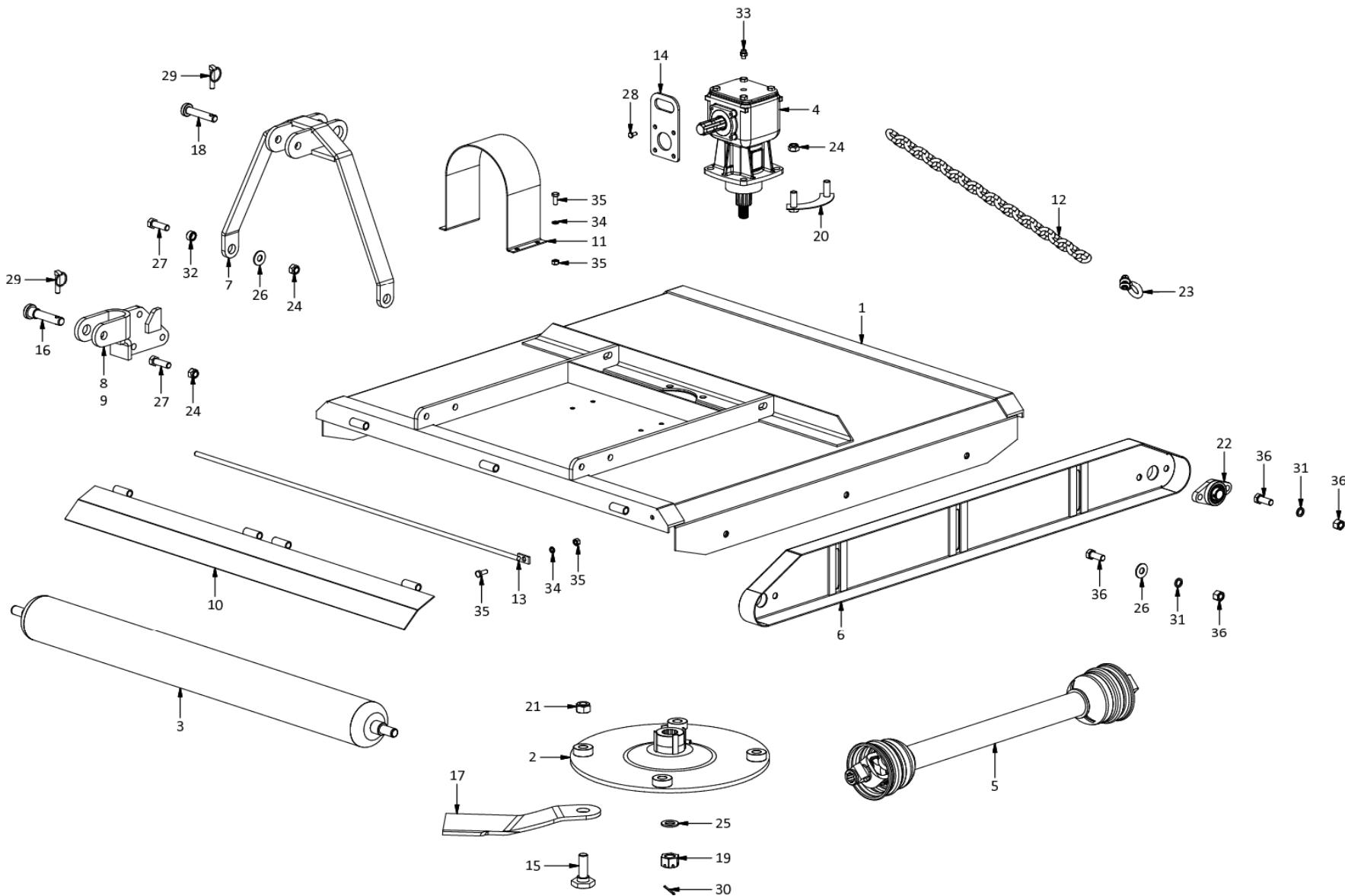
F25-90RM Rollermower
A0002



F25-90RM Rollermower
A0002

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	H0500R	Deck Painted 900	1	41	M3170	Decal VERY IMPORTANT BEFORE USING.....	1
2	M1100	Gearbox F25	1	42	M3168	Decal Bird FALCON Large	1
3	H0300	Roller 900 D127.0	2	43	M3174	Decal IMPORTANT WHEN LOADING.....	1
4	T200810CE112112	PTO shaft T20 810	1	44	M3173	Decal Lifting hook	1
5	H1124	Disk 4-M16 PCD378.5	1	45	M3175	Decal PROUD TO BE SOUTH AFRICAN	1
6	H0600	Top mast Cat1	1	46	M3187	Decal ATTENTION If your tractor is	1
7	H0407	Side panel	2	47	M3169	Decal Bird FALCON Small	2
8	H0655	Clevis Right +stop	1	48	M3178	Decal Blade/Lem	1
9	H0654	Clevis Left	1				
10	H0200	Flap Rear 900	2				
11	H0700	PTO guard	1				
12	R0609	Chain GR5 9.0	1				
13	H0100	Pin Hinge 900	2				
14	M0626	Lifting bracket	1				
15	H0644	Pin Btm link Cat1/2	2				
16	H0631	Pin Top link Cat1	1				
17	M0620	Shackle 9mm	2				
18	LF13582200515	Nut Slotted M24x2	1				
19	H1128	Blade Banana 8x70x(265)-26	3				
20	H1110	Ganged bolts M16Fx45	2				
21	M0460	Bearing UCFL205	4				
22	M61616	Nut Nyloc M16	13				
23	LF13583200409	Washer 25x44x4	1				
24	M81603	Washer M16x40x3	6				
25	M41650	Bolt M16x50HT	9				
26	M40815	Bolt M8x16HT	4				
27	FLP11	Lynchpin 11mm	3				
28	M1416	Split pin B5x60	1				
29	M91604	Washer Spring M16	12				
30	H71613	Bush 16x25x13	2				
31	H71610	Bush Hard 16x25x10	3				
32	LF1786700161	Plug Breather 1/4BSP	1				
33	M91002	Washer Spring M10	6				
34	M11025	Bolt+nut M10x25HT	12				
35	M11640	Bolt+nut M16x40HT	24				
36	M3116	Decal WARRANTY 2+2 WAARBORG.....	1				
37	M3172	Decal DANGER STAY AWAY - ROTATING.....	1				
38	M3003	Serial plate	1				
39	M3121	Decal F25/90R Rollermower	1				
40	M3171	Decal Baie Belangrik Alvorens U Die	1				

F25-120RM Rollermower
A0004

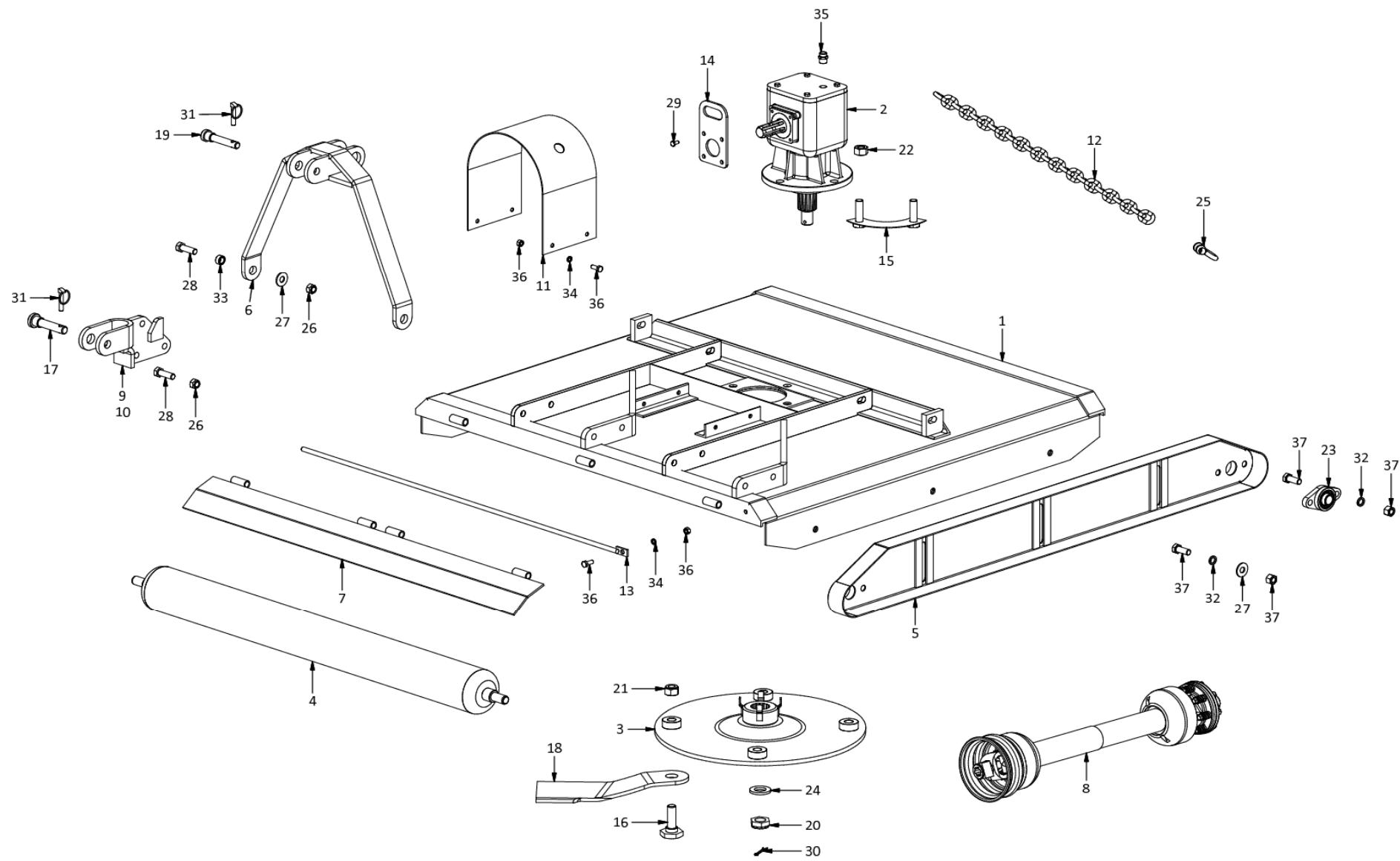


F25-120RM Rollermower

A0004

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	H0501R	Deck Painted 1200	1	41	M3169	Decal Bird FALCON Small	2
2	H1120	Disk 4-M22 PCD450	1	42	M3178	Decal Blade/Lem	1
3	H0301	Roller 1200 D127.0	2	43	M3172	Decal DANGER STAY AWAY - ROTATING.....	1
4	M1100	Gearbox F25	1	44	M3123	Decal F25/120R Rollermower	1
5	T400810CE112112	PTO shaft T40 810	1	45	M3174	Decal IMPORTANT WHEN LOADING.....	1
6	H0408	Side panel	2	46	M3173	Decal Lifting hook	1
7	H0600	Top mast Cat1	1	47	M3175	Decal PROUD TO BE SOUTH AFRICAN	1
8	H0655	Clevis Right +stop	1	48	M3170	Decal VERY IMPORTANT BEFORE USING.....	1
9	H0654	Clevis Left	1	49	M3116	Decal WARRANTY 2+2 WAARBORG.....	1
10	H0201	Flap Rear 1200	2				
11	H0700	PTO guard	1				
12	R0609	Chain GR5 9.0	1				
13	H0101	Pin Hinge 1200	2				
14	M0626	Lifting bracket	1				
15	M52275	Blade bolt M22-10.9 Special	4				
16	H0644	Pin Btm link Cat1/2	2				
17	H1812	Blade Banana 10x90x(375)-32.5	4				
18	H0631	Pin Top link Cat1	1				
19	LF13582200515	Nut Slotted M24x2	1				
20	H1110	Ganged bolts M16Fx45	2				
21	M62222	Nut Nyloc M22	4				
22	M0460	Bearing UCFL205	4				
23	M0622	Shackle 7/16in 1.5T	2				
24	M61616	Nut Nyloc M16	10				
25	LF13583200409	Washer 25x44x4	1				
26	M81603	Washer M16x40x3	8				
27	M41650	Bolt M16x50HT	6				
28	M40815	Bolt M8x16HT	4				
29	FLP11	Lynchpin 11mm	3				
30	M1416	Split pin B5x60	1				
31	M91604	Washer Spring M16	14				
32	H71613	Bush 16x25x13	2				
33	LF1786700161	Plug Breather 1/4BSP	1				
34	M91002	Washer Spring M10	6				
35	M11025	Bolt+nut M10x25HT	12				
36	M11640	Bolt+nut M16x40HT	28				
37	M3003	Serial plate	1				
38	M3187	Decal ATTENTION If your tractor is	1				
39	M3171	Decal Baie Belangrik Alvorens U Die	1				
40	M3168	Decal Bird FALCON Large	1				

F40-120RM Rollermower
A0012

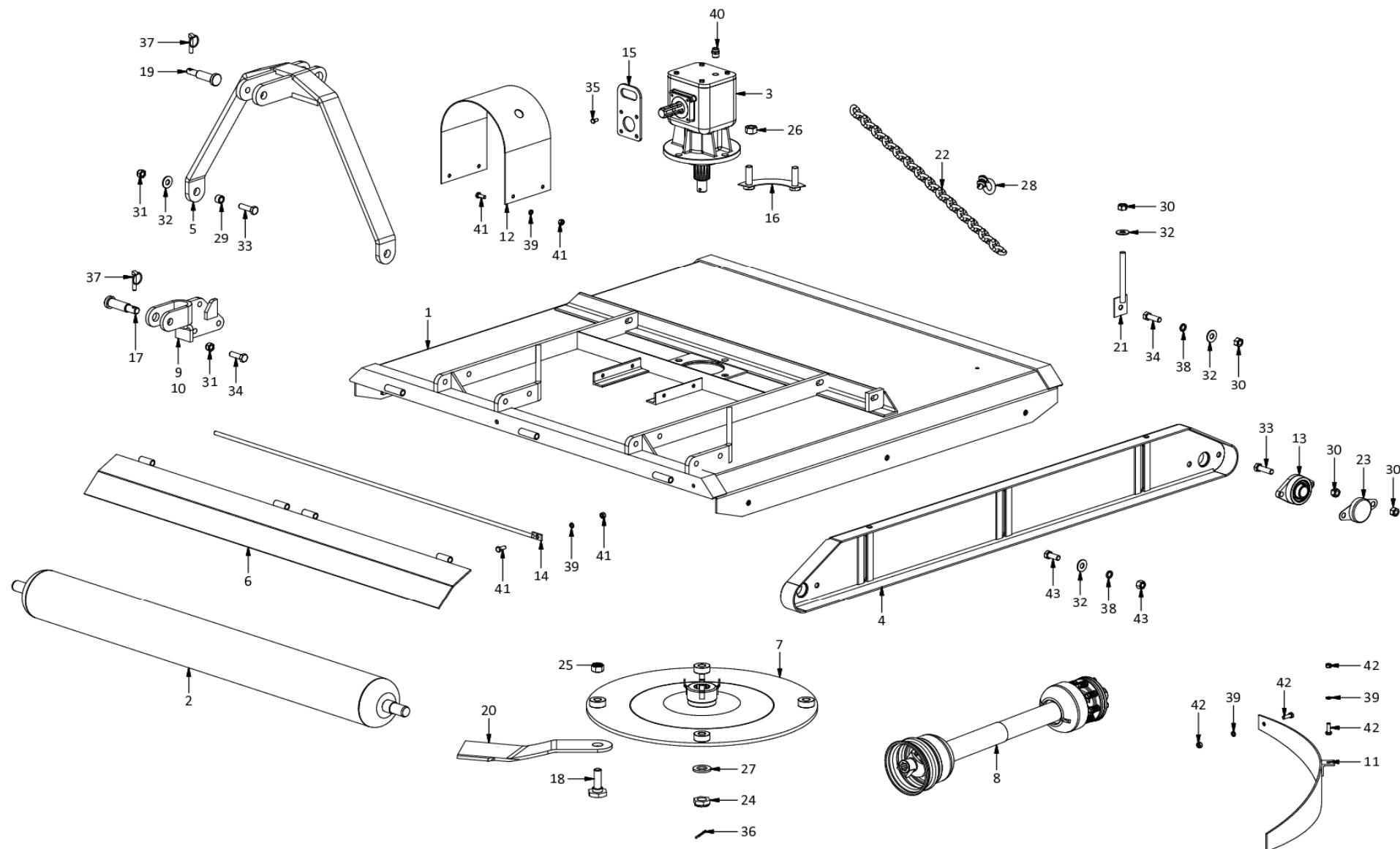


F40-120RM Rollermower

A0012

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	H0510R	Deck Painted 1200	1	41	M3168	Decal Bird FALCON Large	1
2	M1203	Gearbox F40	1	42	M3169	Decal Bird FALCON Small	2
3	H1257	Disk 4-M22 PCD470	1	43	M3178	Decal Blade/Lem	1
4	H0301	Roller 1200 D127.0	2	44	M3172	Decal DANGER STAY AWAY - ROTATING.....	1
5	H0408	Side panel	2	45	M3129	Decal F40/120R Rollermower	1
6	H0601	Top mast Cat1/2	1	46	M3174	Decal IMPORTANT WHEN LOADING.....	1
7	H0212	Flap Rear 1200	2	47	M3173	Decal Lifting hook	1
8	T400760CE112F12	PTO shaft T40 760 112 F12	1	48	M3175	Decal PROUD TO BE SOUTH AFRICAN	1
9	H0655	Clevis Right +stop	1	49	M3170	Decal VERY IMPORTANT BEFORE USING.....	1
10	H0654	Clevis Left	1	50	M3116	Decal WARRANTY 2+2 WAARBORG.....	1
11	H0702	PTO guard	1				
12	R0609	Chain GR5 9.0	1				
13	H0101	Pin Hinge 1200	2				
14	M0626	Lifting bracket	1				
15	H1206	Ganged bolts 3/4UNFx2-1/2	2				
16	M52275	Blade bolt M22-10.9 Special	4				
17	H0644	Pin Btm link Cat1/2	2				
18	H1812	Blade Banana 10x90x(375)-32.5	4				
19	H0630	Pin Top link Cat1/2	1				
20	0.140.7102.00	Nut Slotted M30x2	1				
21	M62222	Nut Nyloc M22	4				
22	M61919	Nut Nyloc 3/4UNF	4				
23	M0460	Bearing UCFL205	4				
24	0.139.7101.00	Washer 31x56x6	1				
25	M0622	Shackle 7/16in 1.5T	2				
26	M61616	Nut Nyloc M16	6				
27	M81603	Washer M16x40x3	8				
28	M41650	Bolt M16x50HT	6				
29	M40815	Bolt M8x16HT	4				
30	M1416	Split pin B5x60	1				
31	FLP11	Lynchpin 11mm	3				
32	M91604	Washer Spring M16	14				
33	H71613	Bush 16x25x13	2				
34	M91002	Washer Spring M10	6				
35	LF14086700269	Plug Breather 1/2BSP	1				
36	M11025	Bolt+nut M10x25HT	12				
37	M11640	Bolt+nut M16x40HT	28				
38	M3003	Serial plate	1				
39	M3187	Decal ATTENTION If your tractor is	1				
40	M3171	Decal Baie Belangrik Alvorens U Die	1				

F40-150RM Rollermower
A0014

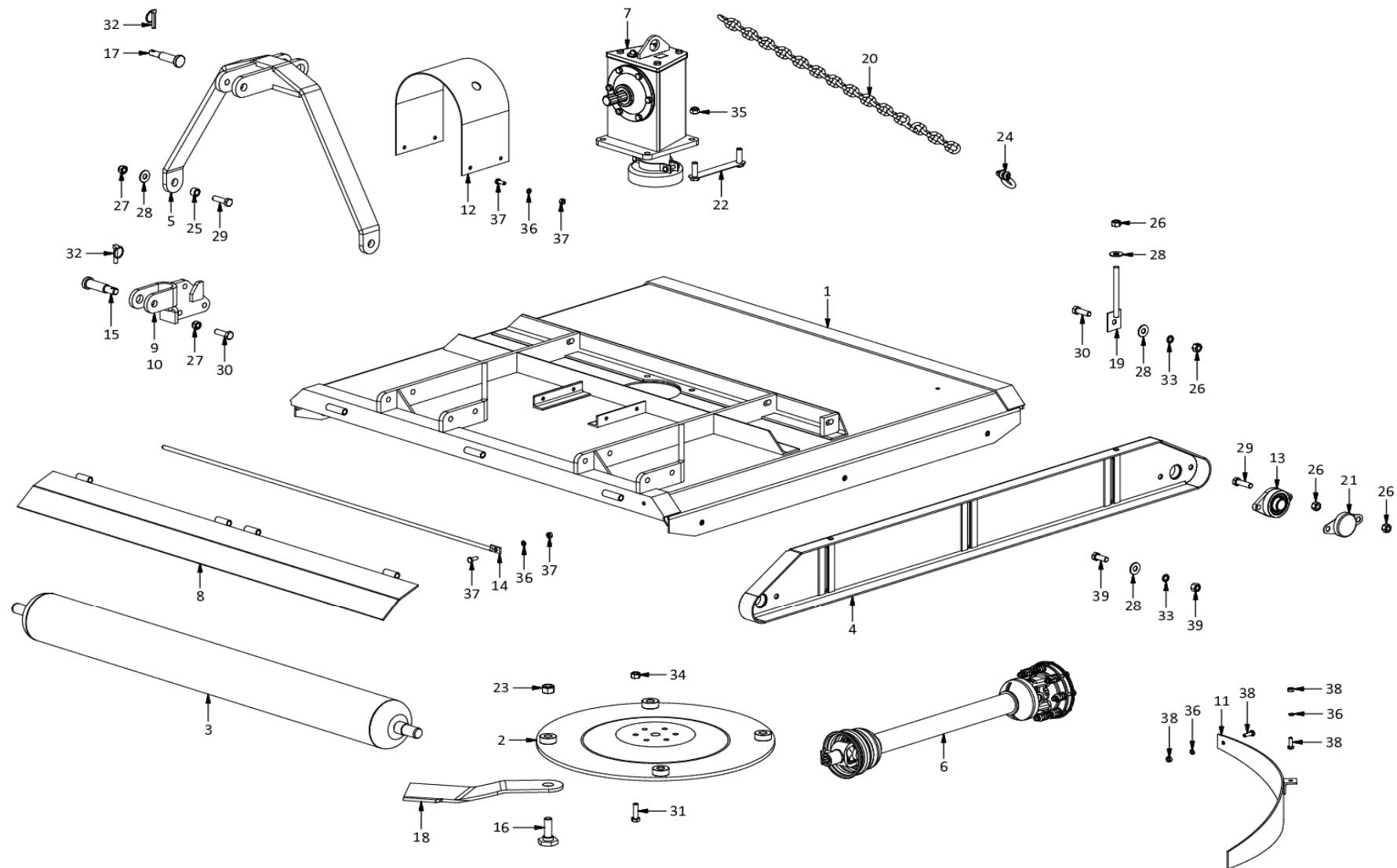


F40-150RM Rollermower

A0014

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	H0511R	Deck Painted 1500	1	41	M11025	Bolt+nut M10x25HT	12
2	H0302	Roller 1500 D165.0	2	42	M11030	Bolt+nut M10x25HT	4
3	M1203	Gearbox F40	1	43	M11640	Bolt+nut M16x40HT	4
4	H0409	Side panel	2	44	M3003	Serial plate	1
5	H0603	Top mast Cat1/2	1	45	M3187	Decal ATTENTION If your tractor is	1
6	H0202	Flap Rear 1500	2	46	M3171	Decal Baie Belangrik Alvorens U Die	1
7	H1241	Disk 4-M22 PCD650	1	47	M3168	Decal Bird FALCON Large	1
8	T600960CE112F22	PTO shaft T60 960 112 F22	1	48	M3176	Decal Bird Falcon Meduim	2
9	H0655	Clevis Right +stop	1	49	M3178	Decal Blade/Lem	1
10	H0654	Clevis Left	1	50	M3172	Decal DANGER STAY AWAY - ROTATING.....	1
11	H0823	Deflector	1	51	M3131	Decal F40/150R Rollermower	1
12	H0702	PTO guard	1	52	M3174	Decal IMPORTANT WHEN LOADING.....	1
13	M0461	Bearing UCFL207	4	53	M3173	Decal Lifting hook	1
14	H0102	Pin Hinge 1500	2	54	M3175	Decal PROUD TO BE SOUTH AFRICAN	1
15	M0626	Lifting bracket	1	55	M3170	Decal VERY IMPORTANT BEFORE USING.....	1
16	H1206	Ganged bolts 3/4UNFx2-1/2	2	56	M3116	Decal WARRANTY 2+2 WAARBORG.....	1
17	H0645	Pin Btm link Cat2/1	2				
18	M52275	Blade bolt M22-10.9 Special	4				
19	H0633	Pin Top link Cat2/1	1				
20	H1801	Blade Banana 10x90x(440)-32.5	4				
21	H0440	Height adjuster	4				
22	R0611	Chain GR5 10.0	1				
23	M0465	Dust cover UCFL207	4				
24	0.140.7102.00	Nut Slotted M30x2	1				
25	M62222	Nut Nyloc M22	4				
26	M61919	Nut Nyloc 3/4UNF	4				
27	0.139.7101.00	Washer 31x56x6	1				
28	M0622	Shackle 7/16in 1.5T	2				
29	H71617	Bush 16x25x17	2				
30	M31612	Nut M16	24				
31	M61616	Nut Nyloc M16	6				
32	M81603	Washer M16x40x3	12				
33	M41655	Bolt M16x55HT	10				
34	M41650	Bolt M16x50HT	8				
35	M40815	Bolt M8x16HT	4				
36	M1416	Split pin B5x60	1				
37	FLP11	Lynchpin 11mm	3				
38	M91604	Washer Spring M16	6				
39	M91002	Washer Spring M10	8				
40	LF14086700269	Plug Breather 1/2BSP	1				

F50-150R Rollermower
A0022

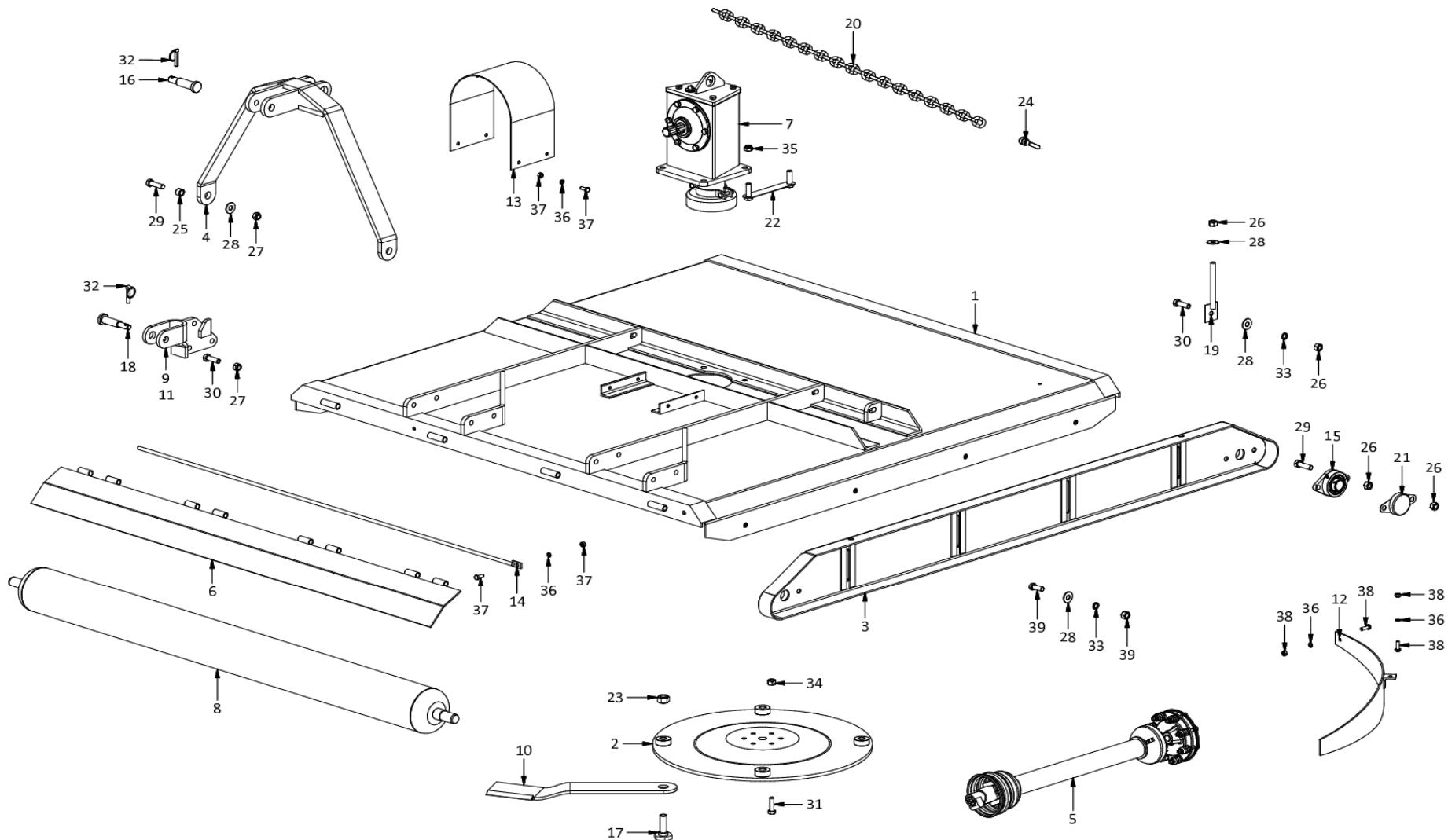


F50-150R Rollermower

A0022

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	H0520R	Deck Painted 1500	1	41	M3176	Decal Brid FALCON Meduim	2
2	H1256	Disk 4-M22 PCD650	1	42	M3135	Decal F50/150R Rollermower	1
3	H0302	Roller 1500 D165.0	2	43	M3168	Decal Bird FALCON Large	1
4	H0409	Side panel	2	44	M3172	Decal DANGER STAY AWAY - ROTATING.....	1
5	H0603	Top mast Cat1/2	1	45	M3173	Decal Lifting hook	1
6	T600960CE112F22	PTO shaft T60 960 112 F22	1	46	M3175	Decal PROUD TO BE SOUTH AFRICAN	1
7	H1300	Gearbox F50	1	47	M3187	Decal ATTENTION If your tractor is	1
8	H0202	Flap Rear 1500	2	48	M3171	Decal Baie Belangrik Alvorens U Die	1
9	H0655	Clevis Right +stop	1	49	M3178	Decal Blade/Lem	1
10	H0654	Clevis Left	1	50	M3174	Decal IMPORTANT WHEN LOADING.....	1
11	H0823	Deflector	1	51	M3170	Decal VERY IMPORTANT BEFORE USING.....	1
12	H0702	PTO guard	1				
13	M0461	Bearing UCFL207	4				
14	H0102	Pin Hinge 1500	2				
15	H0645	Pin Btm link Cat2/1	2				
16	M52275	Blade bolt M22-10.9 Special	4				
17	H0633	Pin Top link Cat2/1	1				
18	H1801	Blade Banana 10x90x(440)-32.5	4				
19	H0440	Height adjuster	4				
20	R0609-0005	Chain Gr5 10mm 2T	1				
21	M0465	Dust cover UCFL207	4				
22	H5357	Ganged bolts M16Fx55	2				
23	M62222	Nut Nyloc M22	4				
24	M0622	Shackle 7/16in 1.5T	2				
25	H71617	Bush 16x25x17	2				
26	M31612	Nut M16	24				
27	M61616	Nut Nyloc M16	6				
28	M81603	Washer M16x40x3	12				
29	M41655	Bolt M16x55HT	10				
30	M41650	Bolt M16x50HT	8				
31	M41450	Bolt M14x50HT	6				
32	FLP11	Lynchpin 11mm	3				
33	M91604	Washer Spring M16	6				
34	M31410	Nut M14	6				
35	M61616F	Nut Nyloc M16F Galv	4				
36	M91002	Washer Spring M10	8				
37	M11025	Bolt+nut M10x25HT	12				
38	M11030	Bolt+nut M10x30HT	4				
39	M11640	Bolt+nut M16x40HT	4				
40	M3003	Serial plate	1				

F50-180RM Rollermower
A0024



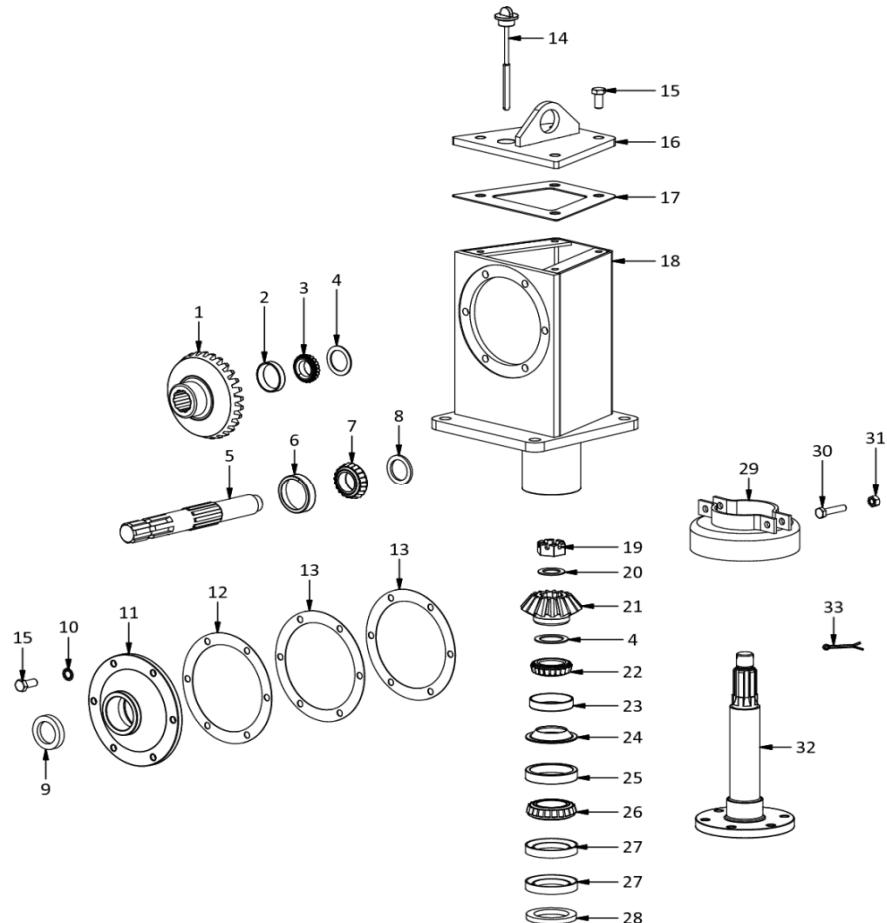
F50-180RM Rollermower

A0024

Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	H0521R	Deck Painted 1800	1	41	M3176	Decal Brid FALCON Meduim	2
2	H1256	Disk 4-M22 PCD650	1	42	M3138	Decal F50/180R Rollermower	1
3	H0410	Side panel	2	43	M3168	Decal Bird FALCON Large	1
4	H0603	Top mast Cat1/2	1	44	M3172	Decal DANGER STAY AWAY - ROTATING.....	1
5	T600960CE112F22	PTO shaft T60 960 112 F22	1	45	M3173	Decal Lifting hook	1
6	H0203	Flap Rear 1800	2	46	M3175	Decal PROUD TO BE SOUTH AFRICAN	1
7	H1300	Gearbox F50	1	47	M3187	Decal ATTENTION If your tractor is	1
8	H0303	Roller 1800 D165.0	2	48	M3171	Decal Baie Belangrik Alvorens U Die	1
9	H0655	Clevis Right +stop	1	49	M3178	Decal Blade/Lem	1
10	H1810	Blade Banana 10x90x(585)-32.5	4	50	M3174	Decal IMPORTANT WHEN LOADING.....	1
11	H0654	Clevis Left	1	51	M3170	Decal VERY IMPORTANT BEFORE USING.....	1
12	H0823	Deflector	1				
13	H0702	PTO guard	1				
14	H0103	Pin Hinge 1800	2				
15	M0461	Bearing UCFL207	4				
16	H0645	Pin Btm link Cat2/1	1				
17	M52275	Blade bolt M22-10.9 Special	4				
18	H0633	Pin Top link Cat2/1	2				
19	H0440	Height adjuster	4				
20	R0609	Chain GR5 9.0	1				
21	M0465	Dust cover UCFL207	4				
22	H5357	Ganged bolts M16Fx55	2				
23	M62222	Nut Nyloc M22	4				
24	M0622	Shackle 7/16in 1.5T	2				
25	H71617	Bush 16x25x17	2				
26	M31612	Nut M16	24				
27	M61616	Nut Nyloc M16	6				
28	M81603	Washer M16x40x3	14				
29	M41655	Bolt M16x55HT	10				
30	M41650	Bolt M16x50HT	8				
31	M41450	Bolt M14x50HT	6				
32	FLP11	Lynchpin 11mm	3				
33	M91604	Washer Spring M16	8				
34	M31410	Nut M14	6				
35	M61616F	Nut Nyloc M16F	4				
36	M91002	Washer Spring M10	8				
37	M11025	Bolt+nut M10x25HT	12				
38	M11030	Bolt+nut M10x25HT	4				
39	M11640	Bolt+nut M16x40HT	8				
40	M3003	Serial plate	1				

Gearbox F50

H1300



Item	Part No.	Description	Qty
1	H1310	Gear Bevel Z29/z10	1
2	M1311	Bearing L44610	1
3	M1312	Bearing L44649	1
4	M1313	Shim 35x49x0.25	A/R
4	M1341	Shim 35x49x0.5	A/R
4	M1342	Shim 35x49x1.0	A/R
5	H1309	Shaft Input 1-3/8 Z6	1
6	M1306	Bearing LM48510	1
7	M1307	Bearing LM48548	1
8	H1308	Washer Hard 50x35x4	1
9	M1301	Seal Radial lip 137227	1
10	M81201	Washer Star M12	6
11	H1303	Input cover F50	1
12	M1304	Gasket Input F50	1
13	M1305	Shim 0.1mm Plastic	A/R
14	M1334	Plug + Dipstick F50	1
15	M41225	Bolt M12x25HT	10
16	H1321A	Cover Gearbox F50	1
17	M1320	Gasket Top F50	1
18	H1314	Housing F50	1
19	M1319	Nut Slotted 1.0UNF	1
20	M1343	Washer 40x26x2	1
21	H1318	Gear Bevel Z16/z6	1
22	M1407	Bearing LM29749	1
23	M1408	Bearing LM29710	1
24	H1324	Retainer Domed	1
25	M1327	Bearing 603011	1
26	M1328	Bearing 603049	1
27	M1325	Seal Radial lip 103905	2
28	M1326	Seal Felt 75x50x10	1
29	H1323	Dust cover	1
30	M41045	Bolt M10x45HT	2
31	M31007	Nut M10	2
32	H1315	Shaft Output F50	1
33	M1416	Split pin B5x60	1

A/R = As Required